



**iVMS-4200 Client Software**

# **User Manual**

**Hangzhou Hikvision Digital Technology Co., Ltd.**

## Notices

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# Contents

<b>Chapter1. Overview.....</b>	<b>4</b>
1.1 Description.....	4
1.2 Features & Functions .....	4
<b>Chapter2. Update Info.....</b>	<b>6</b>
<b>Chapter3. Start iVMS-4200 .....</b>	<b>7</b>
3.1 Install the Software .....	7
3.2 Uninstall the Software.....	12
3.3 User Registration.....	13
3.4 Import Camera Wizard.....	14
3.5 User Login.....	18
3.6 Control Panel Introduction .....	19
3.7 User Management .....	21
<b>Chapter4. Camera Management.....</b>	<b>24</b>
4.1 Add Device.....	24
4.1.1 Add Device.....	24
4.1.2 Device Configuration .....	25
4.2 Add a Stream Media Server .....	27
4.3 Add a Group .....	28
<b>Chapter5. Live View &amp; Control .....</b>	<b>30</b>
5.1 Main View Components .....	30
5.2 Start Live View .....	32
5.3 Live View Snapshot .....	33
5.4 PTZ Control .....	33
5.4.1 Preset .....	35
5.4.2 Pattern .....	35
5.4.3 Patrol .....	36
5.5 Alarm / Event View.....	37
5.5.1 View Alarm /Event Information .....	37
5.5.2 Alarm Log Linkage.....	39
5.6 Sub-screen View .....	40
<b>Chapter6. Recording.....</b>	<b>41</b>
6.1 Local Recording.....	41
6.2 NVR Recording.....	41
6.2.1 Add NVR Server .....	41
6.2.2 NVR Recording Schedule Setup .....	43
6.3 Remote Recording .....	45
<b>Chapter7. Playback .....</b>	<b>48</b>
7.1 Local Clips/Snapshots Playback .....	48
7.1.1 Local Clips.....	48
7.1.2 Snapshots .....	49
7.2 Playback .....	51
7.3 Event Playback .....	52
<b>Chapter8. Backup .....</b>	<b>55</b>
8.1 Snapshot Backup .....	55
8.2 Video Clips Backup .....	57
<b>Chapter9. Camera &amp; Device Configuration .....</b>	<b>59</b>

9.1 Camera Configuration .....	59
9.1.1 Picture.....	60
9.1.2 Quality .....	61
9.1.3 Schedule.....	62
9.1.4 Display .....	63
9.1.5 Motion Detection.....	65
9.1.6 Tampering.....	67
9.1.7 Video Loss .....	68
9.1.8 PTZ.....	69
9.1.9 Connection.....	70
9.2 Device Configuration.....	71
9.2.1 Status .....	71
9.2.2 General .....	72
9.2.3 Channels .....	72
9.2.4 Network.....	73
9.2.5 Alarm .....	74
9.2.6 User.....	76
9.2.7 HDD.....	78
9.2.8 Exception.....	79
9.2.9 Files.....	80
9.2.10 Log .....	81
9.2.11 Other.....	82
9.2.12 Zero Channel .....	83
<b>Chapter10. E-Map.....</b>	<b>85</b>
10.1 Add Emap .....	86
10.2 Edit Emap.....	88
10.3 Delete Emap .....	88
<b>Chapter11. Hardware Decoding .....</b>	<b>89</b>
11.1 Add Hardware Decoder.....	89
11.2 Edit TV Wall .....	91
11.3 Add Cameras into TV Wall.....	94
11.4 PC Decoder.....	95
<b>Chapter12. Log.....</b>	<b>97</b>
12.1 Log Query .....	97
12.2 Log Backup.....	97
12.3 Open Log File.....	98
<b>Chapter13. System Configuration .....</b>	<b>100</b>
13.1 General .....	100
13.2 File.....	101
13.3 Alarm Sound .....	102
13.4 Email .....	102
<b>Chapter14. FAQ .....</b>	<b>104</b>
Live View.....	104
Recording .....	104
Playback.....	104
Configuration .....	104

# Chapter 1. Overview

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## 1.1 Description

iVMS-4200 Intelligent Video Management System is a newly-developed colligation software which includes not only NVR, DVR, and IP camera management but also compression card, decoder connection and setup. The powerful functions make it popular in local & remote surveillance of supermarkets, stores, districts and residential places, etc.

This user manual describes the function, configuration and operation steps of iVMS-4200 software. To ensure the properness and stability of the software, please kindly refer to the contents below and read the manual carefully before installation and operation. This user manual can be acquired via your supplier.

## 1.2 Features & Functions

### V1.00.00

1. The software contains 5 subsystems: User Client, PC NVR Server, Stream Media Server, Decode Sever, and Encode Server.
2. Main View: View live video and instant video playback; and various video operations such as picture capture, recording, PTZ control, etc. are supported.
3. E-Map: Manage and display E-Map and hot spots; operate map zoom in/out, view hot spot, display alarm, and other E-Map operations are supported.
4. Event Search: Search and playback of the event record files.
5. TV Wall View: Configure and operate TV wall for video decoders.
6. Camera Import: Add, modify and delete groups and all kinds of camera from Hikvision devices.
7. Local Log Search: Search, view and backup different sorts of local logs such as alarm, operation, system logs, etc.
8. User Management: Add, modify and delete the user of iVMS-4200; assign operating permissions to each user.
9. Device Management: Add, delete, and configure parameters of Hikvision devices, such as network settings, alarm in/out, hard disk management and upgrade, etc.
10. NVR Management: Add, modify and delete the storage server; configure parameters (e.g., record schedule, network, HDD, etc.) for the added storage server.
11. Stream Media Servers: Add, modify and delete the stream media server; configure parameters (e.g., RTSP port, port upper/lower limit, etc.) for the added stream media server.

12. Decoder Server: Add, modify and delete the decoder; configure parameters (e.g., network, alarm input/output, exception, etc.) for the added decoder.
13. Camera Configuration: Configure camera parameters (e.g., image quality, record schedule, motion detection, etc.).
14. System Configuration: Configure the general settings of iVMS-4200, such as the saving path of captured images, recordings, alarm sound settings and email settings.

## **Chapter2. Update Info**

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\* This chapter is reserved for future updating information of software upgrading.

## Chapter3. Start iVMS-4200

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### 3.1 Install the Software

Insert the DX4500/DX4600 resource disc into the remote computer CD/DVD drive, and wait for the window to open.

Follow the installation prompts to install the software.


**Step1:** Double click the program file  iVMS-4200(v1.0) to enter the following InstallShield Wizard as shown below:



Figure 3.1 Welcome to InstallShield Wizard

**Step2:** Click "Next" to start to install the InstallShield Wizard. Select the language (English) for installation, and then click "Next" to continue the installation.

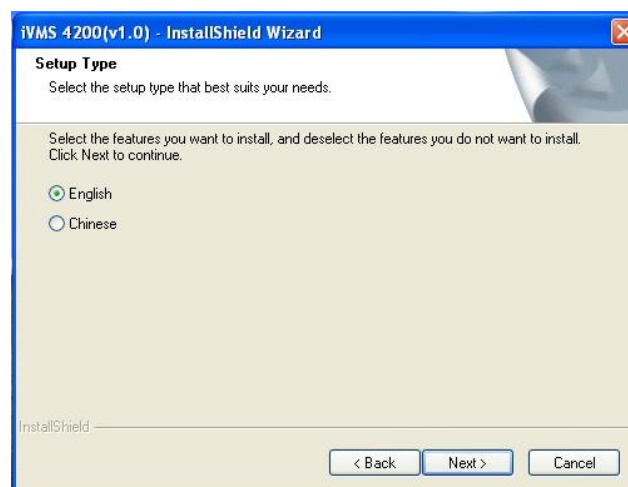


Figure 3.2 Select Language



**Step3: Install vcredist\_x86 patch/Card Driver/WinpCap**

Select the driver you want to install.

vcredist\_x86 patch: for X86 operating system

Card Driver: for compression card

WinpCap: for open source software, SADP driver

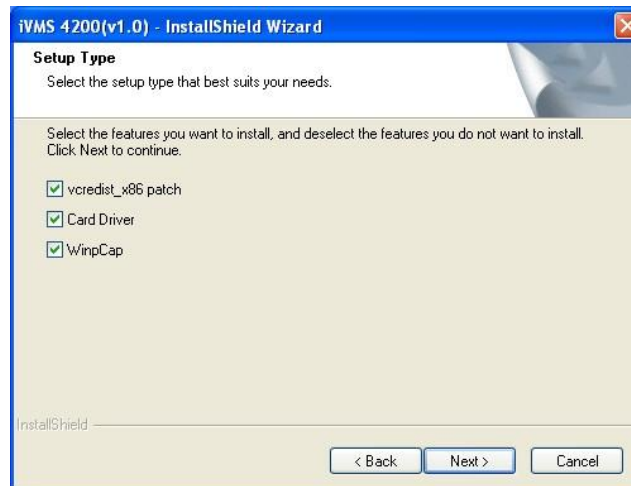


Figure 3.3 Select Driver

**Install vcredist\_x86 patch**

Start to install the vcredist\_x86 patch and then click "Next" to continue.

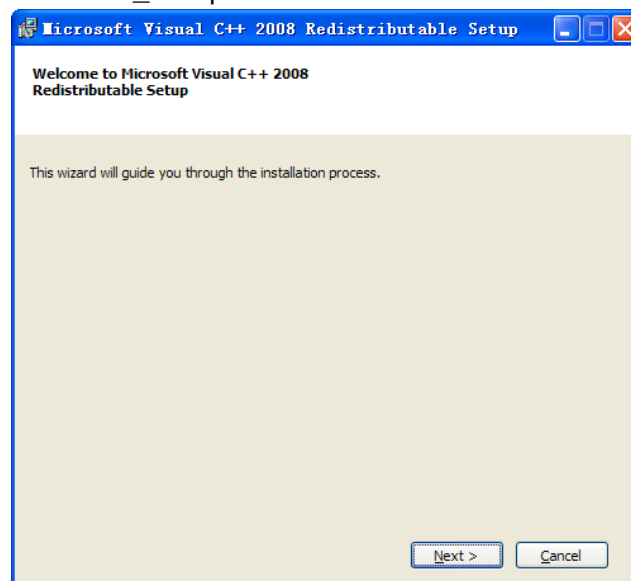


Figure 3.4 Install vcredist\_x86 patch-Start Installation

In the License Terms dialog box, click "I have read and accept the license terms", and then click "Install" to install the vcredist\_x86 patch.

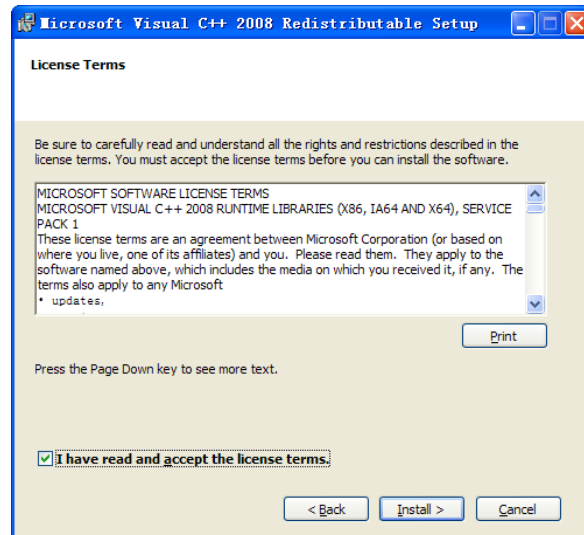


Figure 3.5 Install vcredist\_x86 patch-Accept License Terms

After the Setup Complete interface appears, click **Finish** to complete the installation of vcredist\_x86 patch.

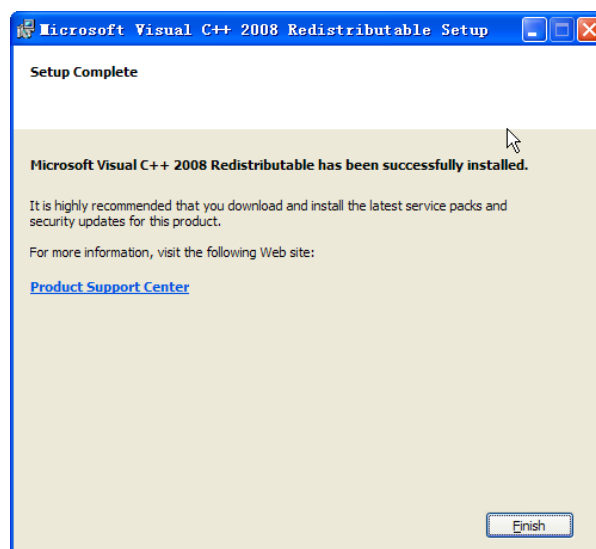


Figure 3.6 Install vcredist\_x86 patch-Complete Installation

### Install Card Driver

If there is compression card installed on your computer, you can click the "Install or Update Driver" option to install the card driver.

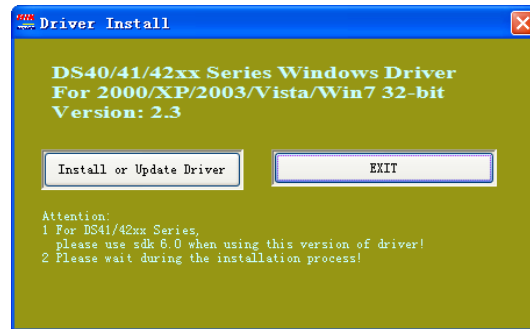


Figure 3.7 Install Card Driver

### Install WinPcap

Follow the installation prompt to complete the installation of WinPcap. If it has been installed on your computer, you can cancel this step.

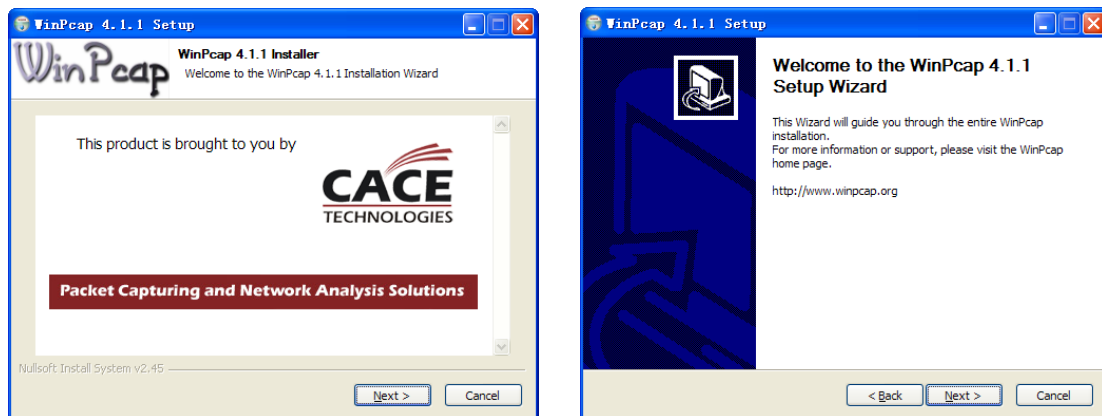


Figure 3.8 Install WinPcap

**Note:** The SADP is used for automatically searching the online device in the local network. If the WinPcap is not installed, the SADP software cannot be used.

After the driver has been installed, continue the following steps.

**Step5:** Select the programs you want to install on your computer, including the User Client, PC NVR Server and Stream Media Server. User can also click **Browse** to change the destination folder for the program files. Click "Next" to continue.

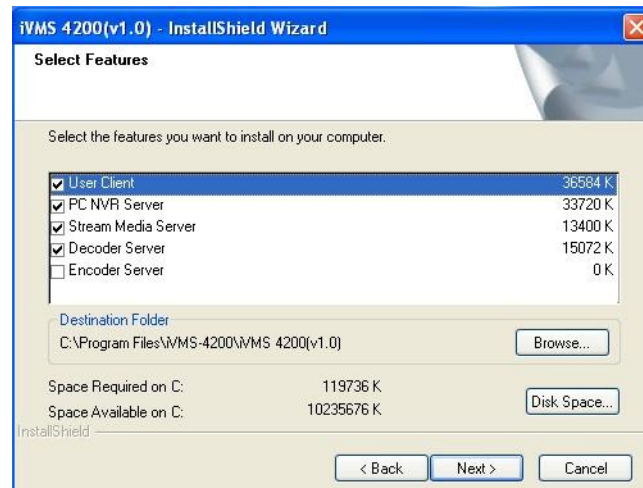


Figure 3.9 Select Installation Programs

**Step6:** In the License Terms interface, click "I accept the terms of the license agreement", and then click "Next" to continue the installation.

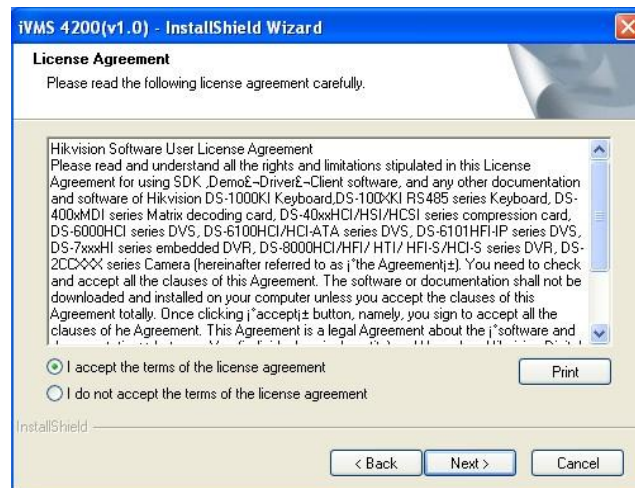


Figure 3.10 Select Installation Programs

**Step7:** Click "Install" to start installation of the selected programs.

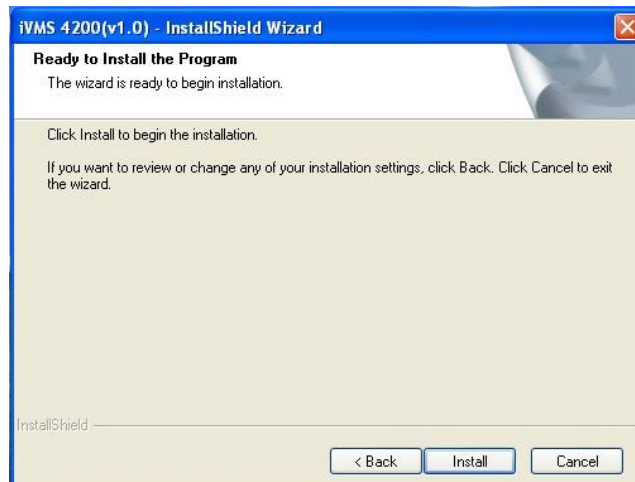


Figure 3.11 Install the Selected Programs

**Step8:** After the installing progress is completed, enter the Setup Type interface to select the desktop shortcut icons for the installed programs. Click “Next” to continue the installation.

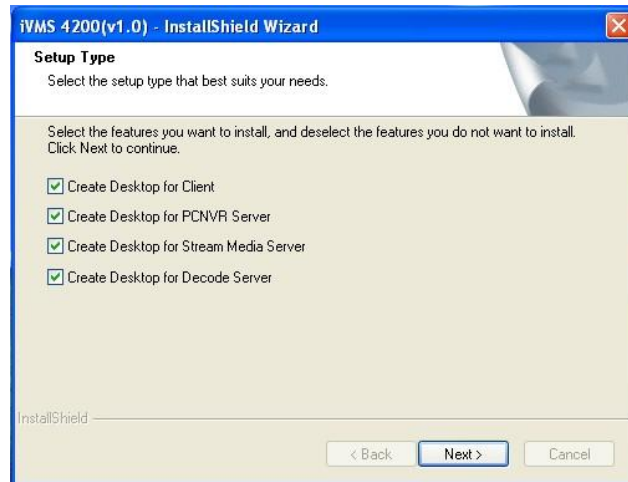


Figure 3.12 Create Desktop Shortcut Icons

**Step9:** Click “Finish” to complete the installation.



Figure 3.13 Finish the Completion

## 3.2 Uninstall the Software

Click Start→All Programs→4200 client and select “Uninstall iVMS-4200” option to enter the following interface:



Figure 3.13 Uninstall the Programs

Select "Remove" to remove all installed features and then click "Next" to uninstall iVMS-4200 according to the prompt.

### 3.3 User Registration

For the first time to use the iVMS-4200 software, user needs to register a super user for login.

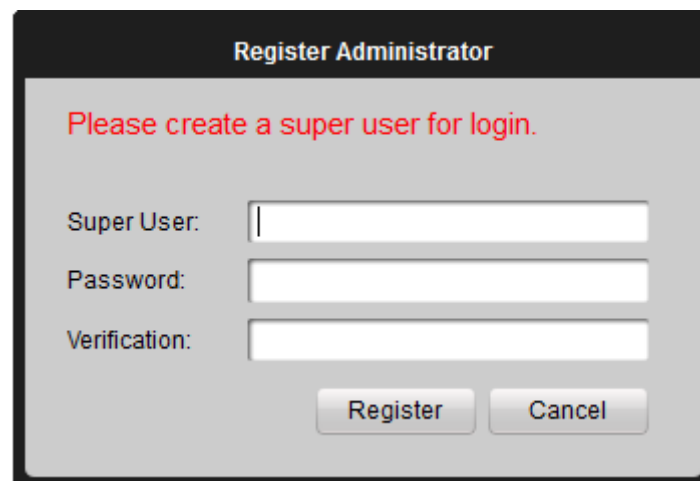


Figure 3.14 User Login

Input the super user name, password and verification in the dialog box and click **Register**. Then, user can log in as the super user.

**Note:** Enter, Space, and TAB buttons are invalid for the user name and password. The password cannot be null, and it should not be less than six characters and does not support the copy and paste operation.

### 3.4 Import Camera Wizard

After registration and login, the following information will pop up:

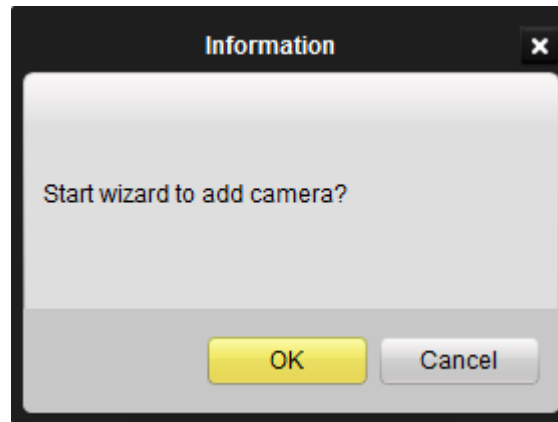


Figure 3.15 Import Camera Wizard

Click **OK** to start the wizard and add the device, or click **Cancel** to exit the wizard.

**Step1:** According to the hint, click **Camera Import** icon to enter the Camera Import control interface.

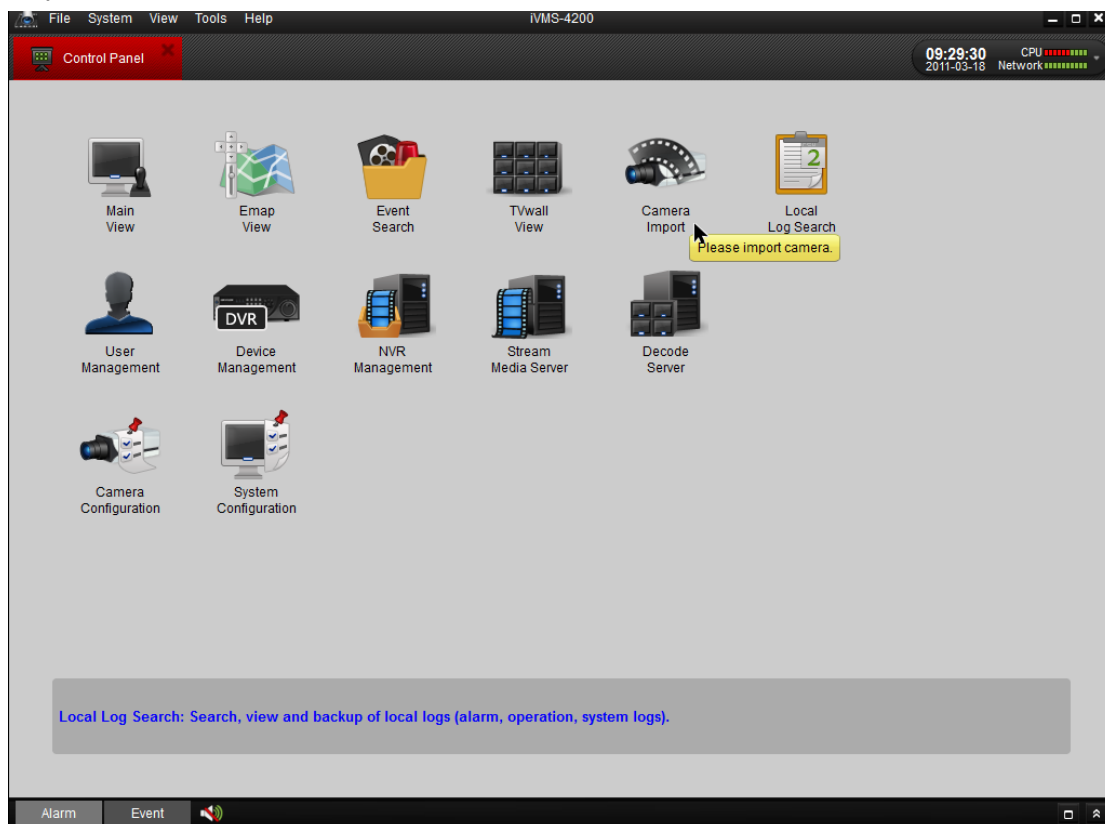


Figure 3.16 Enter Import Camera Interface

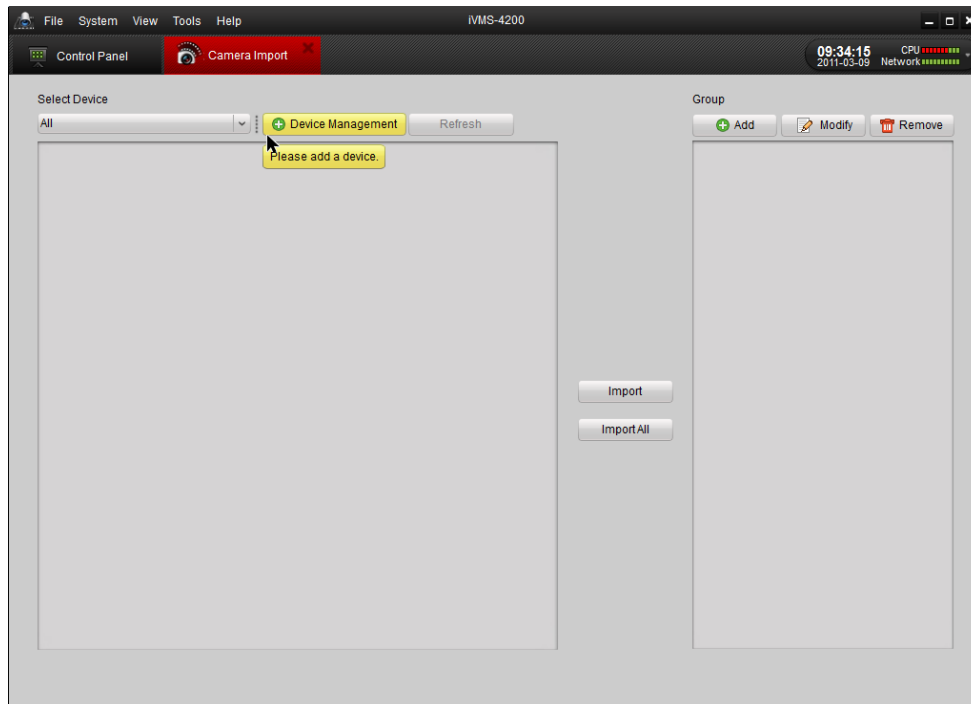


Figure 3.17 Device Management Interface

**Step2: Add DVR**

According to the hint, click **Device Management** to enter the Device Management interface and then click **Add** to enter the device information in the dialog box of Add DVR interface.

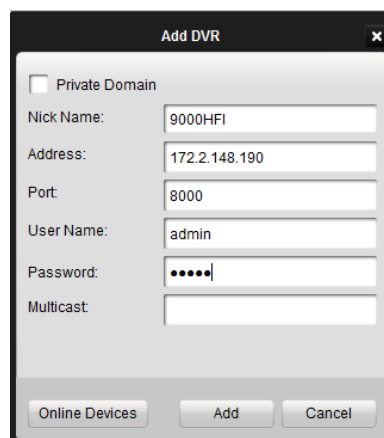


Figure 3.18 Add DVR

**Step 3:** After having added the device according to the above steps, click **Config** to enter the Device Parameters configuration interface (Figure 3.19). User is allowed to view and configure the following settings: Status, General, Channels, Network, Alarm, User, HDD, Exception, Files, Log and Other.



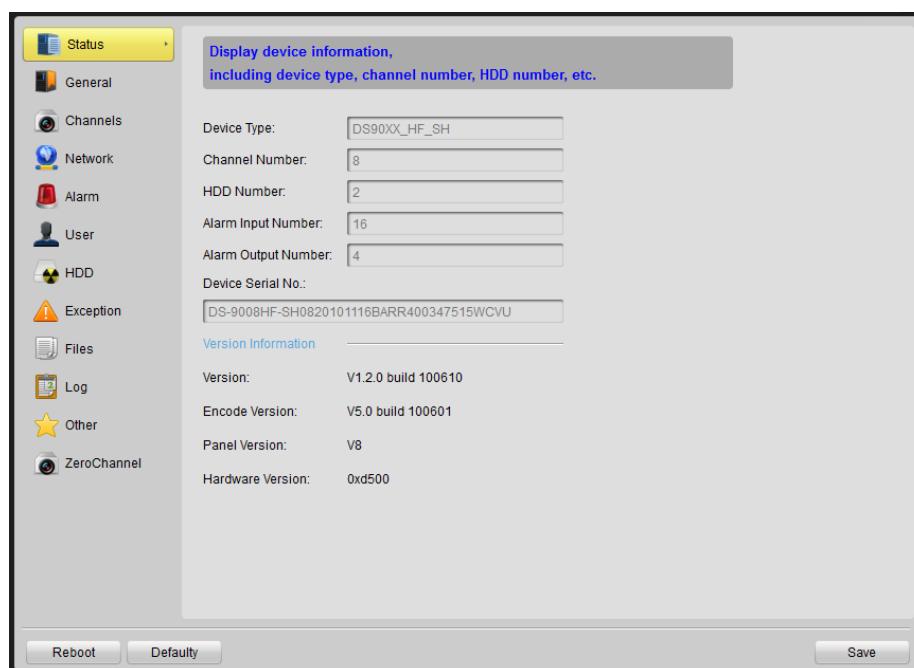


Figure 3.19 Device Parameters

**Step 4: Add Group**

After having added DVR, please click the **Add** on the Camera Import interface to enter Add Group dialog box. Edit the name of group and then click **OK** to finish the adding of group. The added group will be displayed in the list.

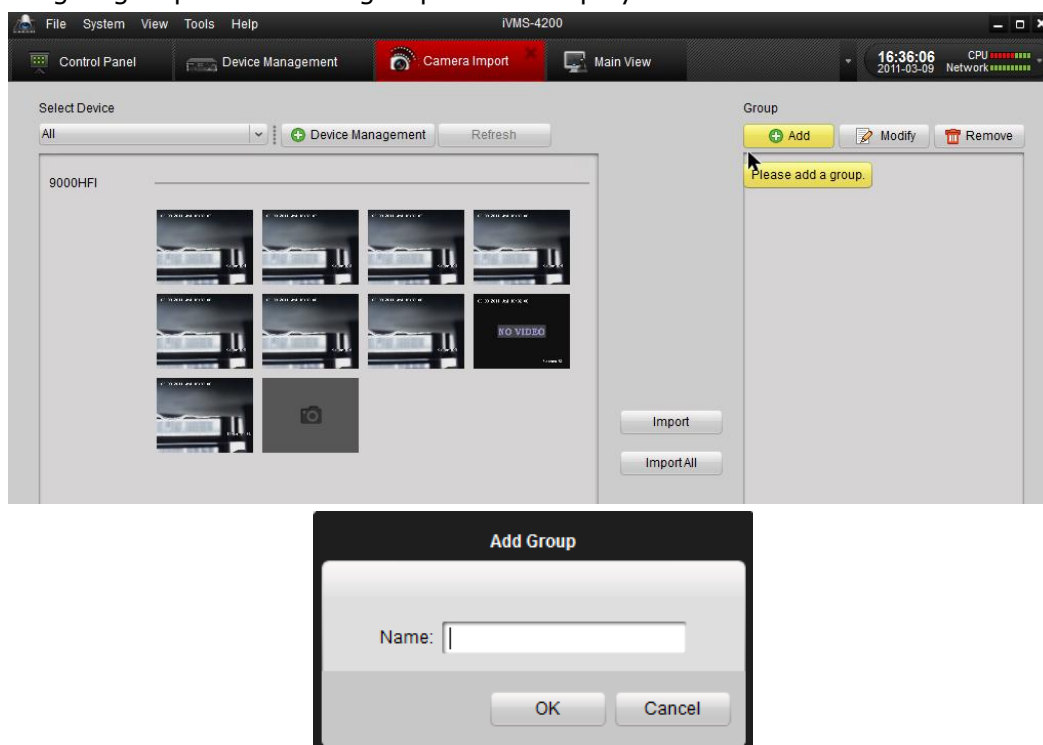


Figure 3.20 Add Group

**Step 5: Import Channel to Group**

In the left area on the Camera Import interface, click and select the channels and

then click **Import** button to import the selected channels to the Group on the right. Refer to Figure 3.21 and Figure 3.22.

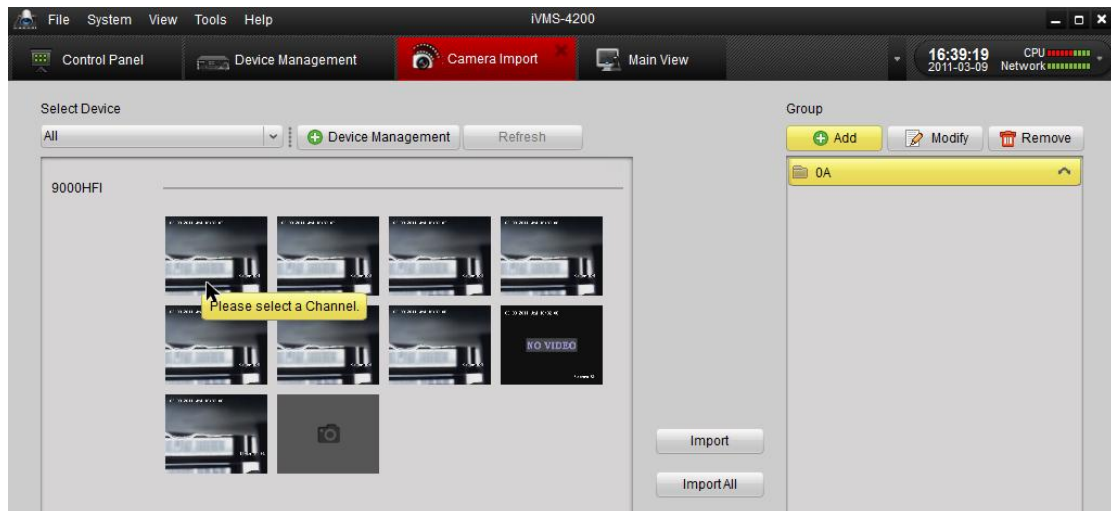


Figure 3.21 Select Channel for Import

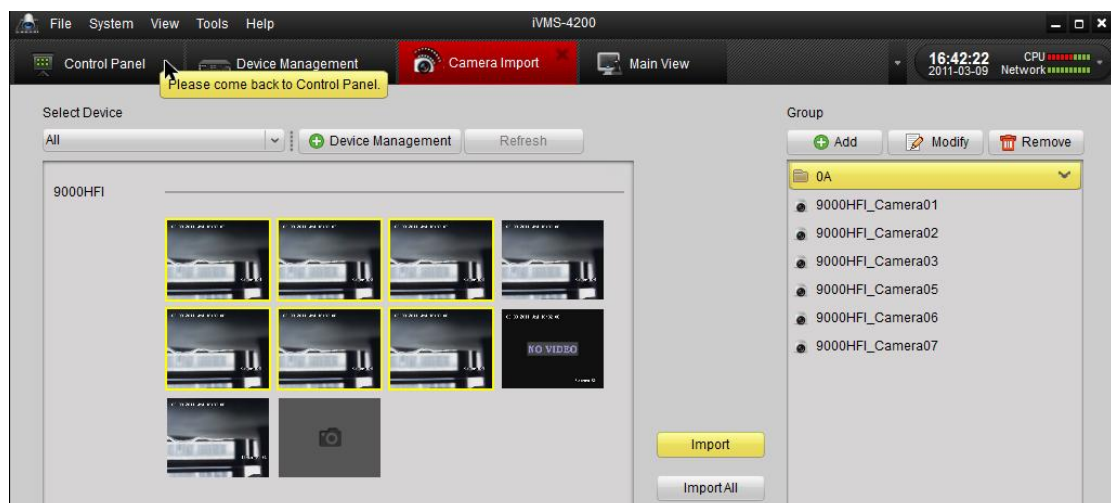


Figure 3.22 Import Selected Channel to Group

**Note:**

1. User may hold the Ctrl key on PC to select multiple channels or click **Import All** button to select all channels for import.
2. The devices to be added must be online currently.
3. Each channel can be added to a group only once, while the same channel can be added to different groups.
4. Up to 50 channels can be added to each group, with a maximum of 256 channels allowable totally.

**Step 6:** After having imported the selected channels to the group, follow the hint to return to the control panel and then enter the main view interface. Refer to Figure 3.23.

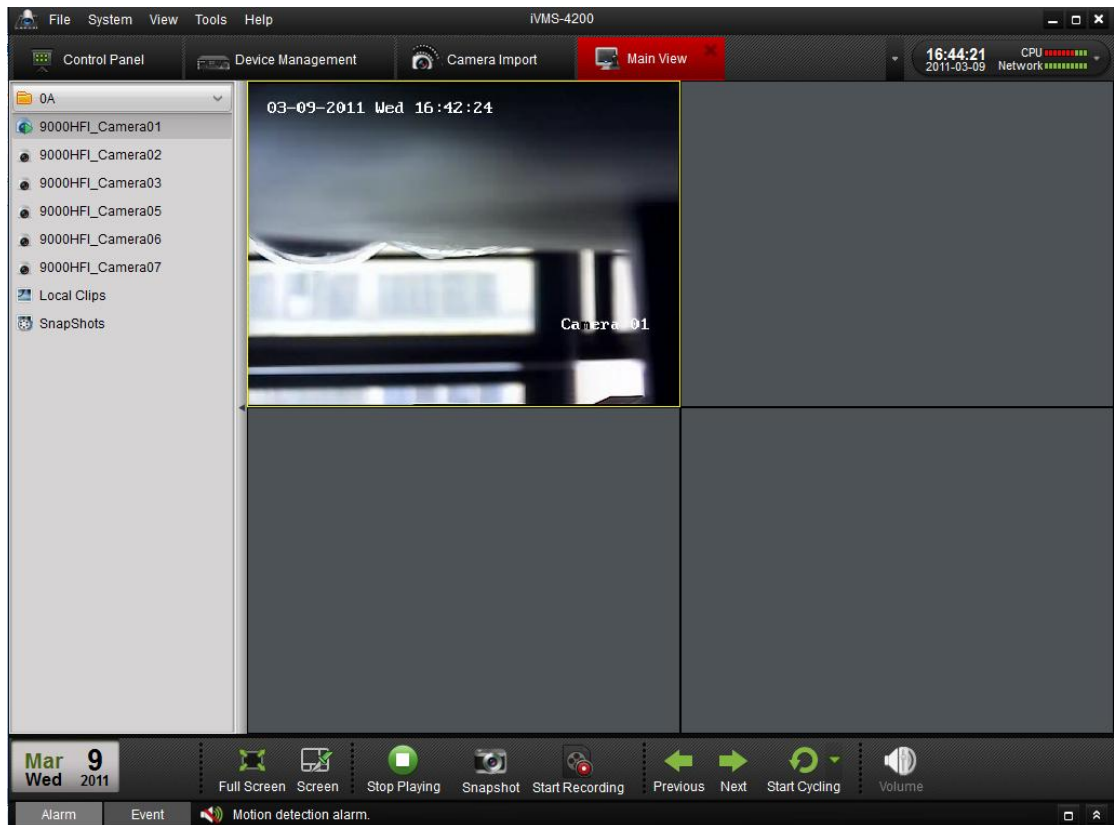


Figure 3.23 Enter Main View Interface

Now, the wizard for camera import is completed.

### 3.5 User Login

When user opens the iVMS-4200 software after registration, the login dialog box will pop up, shown as below:

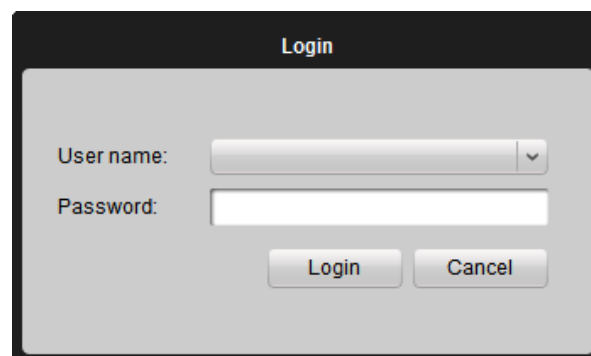


Figure 3.24 User Login

Input user name and password, and then click **Login** to start using the iVMS-4200 software.

## 3.6 Control Panel Introduction

For the intelligent video management system, Hikvision iVMS-4200 provides an effective and convenient GUI for user to operate the client software. The main control panel of the iVMS-4200 is shown as follow:

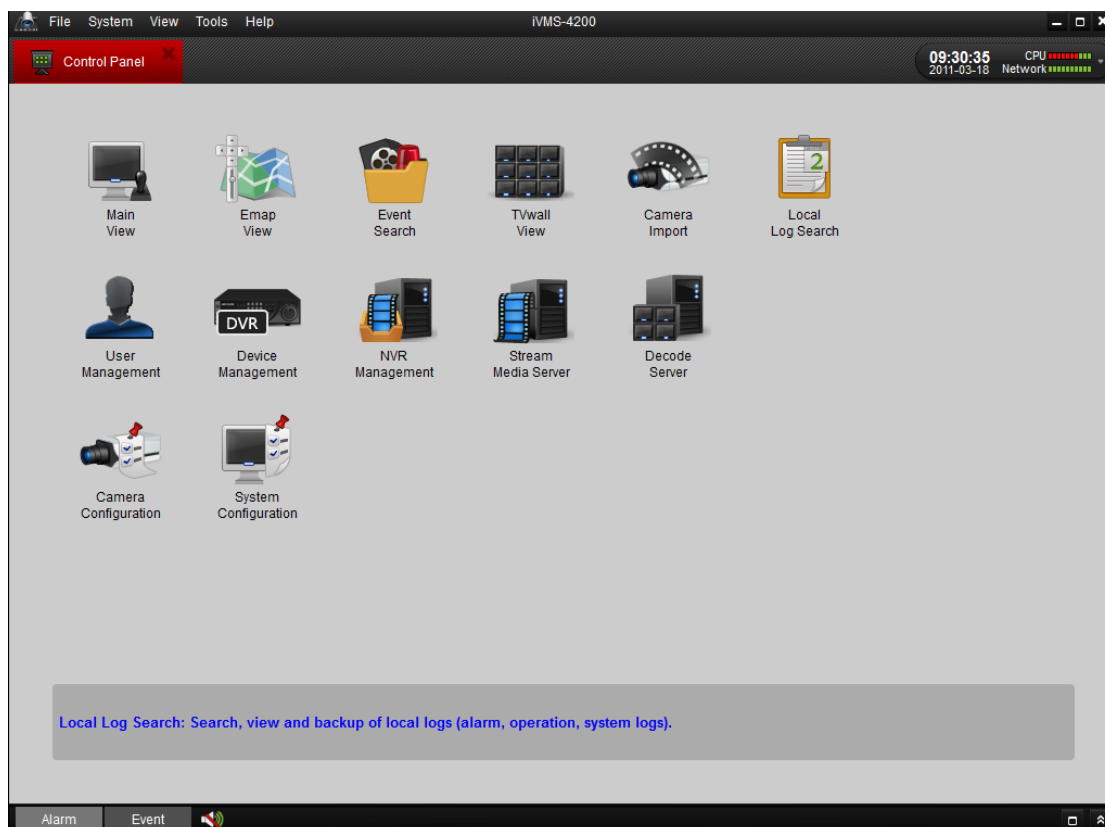


Figure 3.25 Control Panel

### Menu Bar:

<b>File</b>	Open Snapshot File:	Enter the Snapshot interface to select the folder location of the exported snapshot file (s), and then open the file you want to view.
	Open Video File:	Enter the video player and select the folder location of the exported video file (s), and then open the file you want to view. You can also snapshot pictures during the playing of video file.
	Open Log File:	Enter the Log File interface to select the folder location of the exported log file (s), and then open the log file you want to view.
	Exit:	Exit the iVMS-4200 client software.
	Lock:	Lock the screen operation. User must log in before

<b>System</b>		operation.
	Switch User:	Switch login user.
	System Option:	Enter the System Configuration interface.
	Import Client Config File:	Import client configuration from your computer.
	Export Client Config File:	Export client configuration to your computer.
<b>View</b>	1024*768:	Display window at 1024*768.
	1280*1024:	Display window at 1280*1024.
	Full Screen:	Display window in full screen.
	Control Panel:	Enter Control Panel.
	Main View:	Enter Main View interface.
	Emap View:	Enter Emap View interface.
	Event Search:	Enter Event Search interface.
	TVwall View:	Enter TVwall View interface.
<b>Tools</b>	Camera Import	Enter Camera Import interface.
	Camera Configuration	Enter Camera Configuration interface.
	User Management	Enter User Management interface.
	DVR Management	Enter DVR Management interface.
	NVR Management	Enter NVR Management interface.
	Stream Media Server	Enter Stream Media Server interface.
	Decode Server	Enter Decode Server interface.
	Broadcast	Select device to start broadcasting.
<b>Help</b>	Open Guide	Open the guide for camera import.
	About	View information of the client software, including company, software name, version, etc.

The control panel provides 13 icons, and their functions are described as below:

<b>Operating Options</b>	<b>Main View</b>	View live and playback video; realize video operation (e.g., picture capture, recording, PTZ control, etc.).
	<b>Emap View</b>	Manage and display E-Map and hot spots; realize E-Map operation (e.g., operate map zoom in/out, view hot spot, display alarm, etc.)
	<b>Event Search</b>	Search and playback of the event record files; realize playback operation.
	<b>TVwall View</b>	Configure and operate TV wall.
	<b>Camera Import</b>	Add, modify or remove the groups; import/export of cameras.
	<b>Local Log Search</b>	Search, view and backup of local logs

		(alarm, operation, system logs).
<b>Management Options</b>	<b>User Management</b>	Add, modify or remove the user; assign operating permission to each user.
	<b>Device Management</b>	Add, modify or remove the DVR device; configure parameters (e.g., network, alarm input/output, HDD, etc.) for the added DVR.
	<b>NVR Management</b>	Add, modify or remove the storage server; configure parameters (e.g., record schedule, network, HDD, etc.) for the added storage server.
	<b>Stream Media Server</b>	Add, modify or remove the stream media server; configure parameters (e.g., RTSP port, port upper/lower limit, etc.) for the added stream media server.
	<b>Decoder Server</b>	Add, modify or remove the decoder; configure parameters (e.g., network, alarm input/output, exception, etc.) for the added decoder.
<b>Configuration Options</b>	<b>Camera Configuration</b>	Configure camera parameters (e.g., image quality, record schedule, motion detection, etc.).
	<b>System Configuration</b>	Configure the general parameters (e.g., saving path of files, alarm sound, Email, etc.).

## 3.7 User Management



Click  to enter the following user management interface:

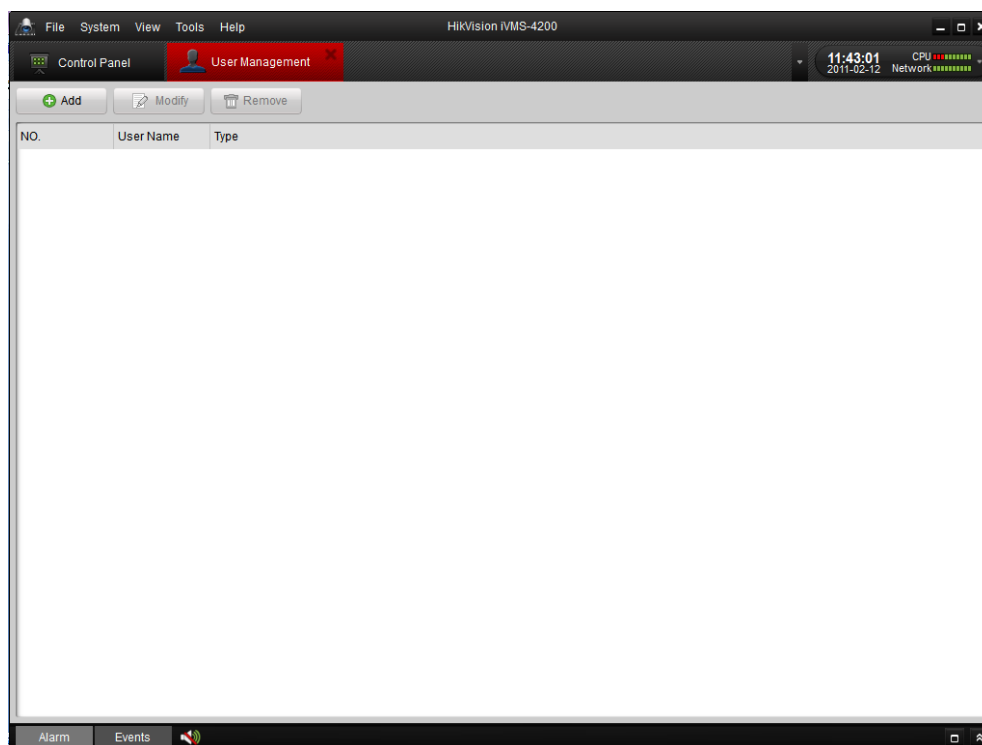


Figure 3.26 User Management

Click **Add** to enter the popup Add User dialog box as followed:

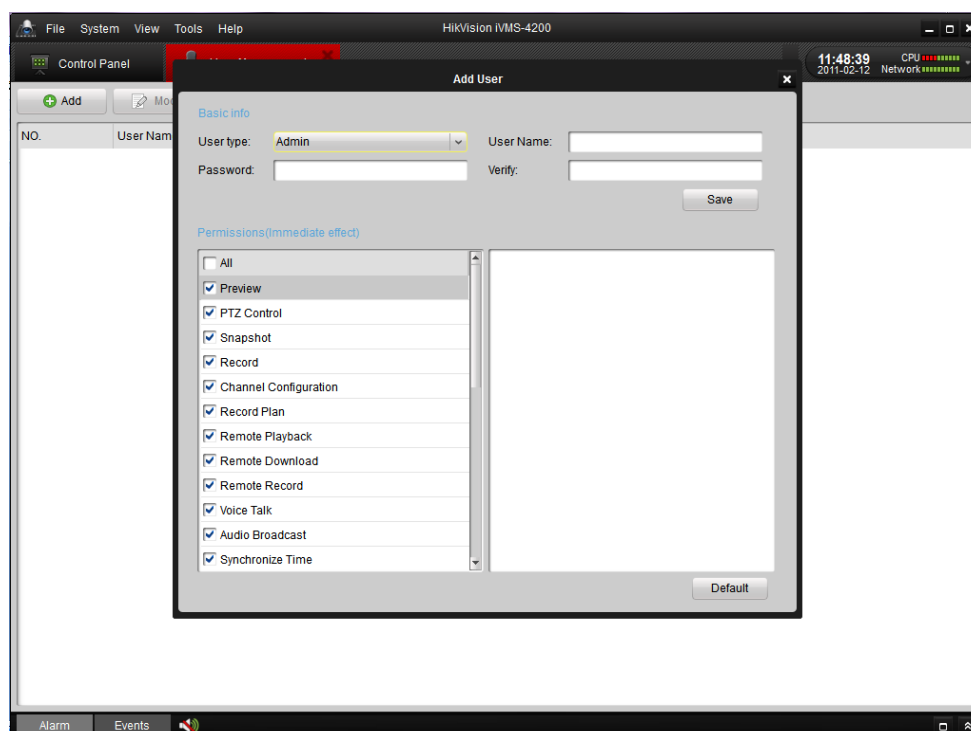


Figure 3.27 Add User

For the user management, the dialog box of Add User includes two parts: Basic Information and Permissions.

**Basic Information**—provides two kinds of user types (Administrator and Operator) to support the users with different permissions.

**Permissions**—include 26 optional permissions and provide manual selected permission function for the different users.

**Tips:** The Admin user has default all permissions and operator user's permission should be selected from list. All selected permissions will be immediate effect.

Input user name and password, and then click **Save** to add a new user. Click **Modify** to change the password and permissions.

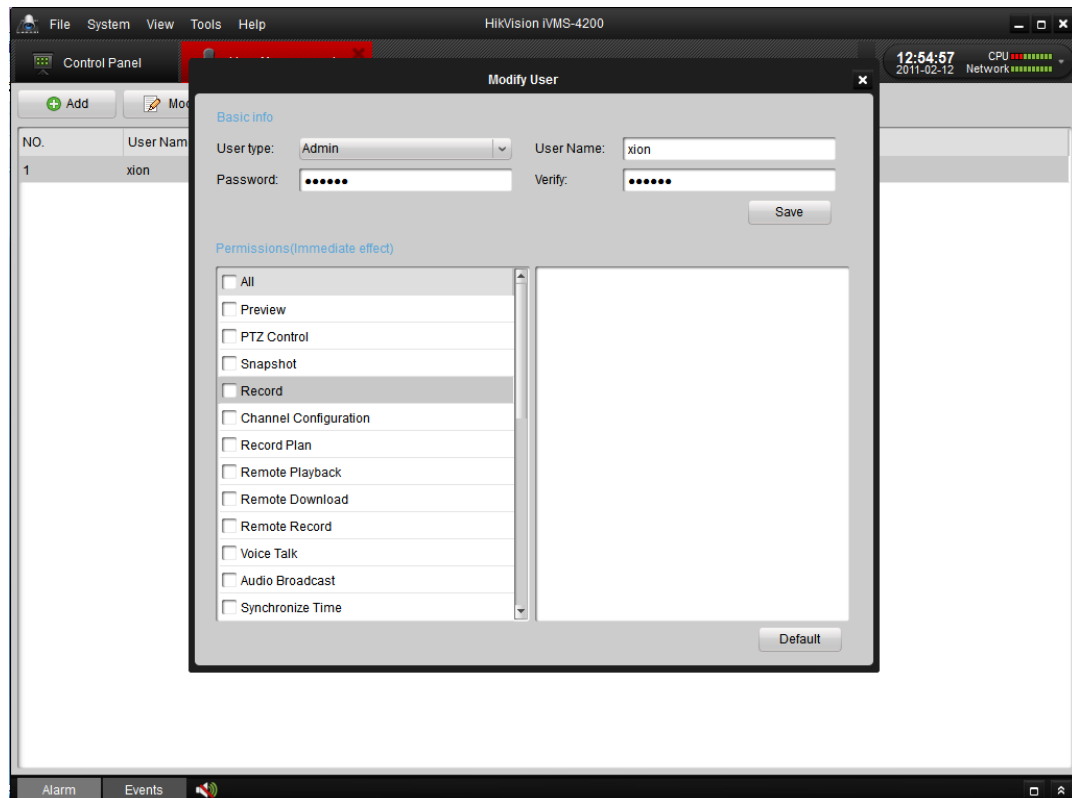



Figure 3.28 Modify User


After having modify user's settings, click **Save** to keep it. And click  to go back User Management interface. Click **Remove** to delete user.



## Chapter4. Camera Management

Before any operations, users need to add a device and import cameras. Please refer to *Section 3.2 Import Camera Wizard*.



Click  to enter the device configure mode, and then click **Add** to manage the device.

### 4.1 Add Device

#### 4.1.1 Add Device

Click the **Add** button on the Device Management interface to add DVR. Input the name, IP address, port, user name and port of the device. User can also select the Private Domain mode to add the device by inputting the DNS address, port, device serial, etc. Refer to Figure 4.1.

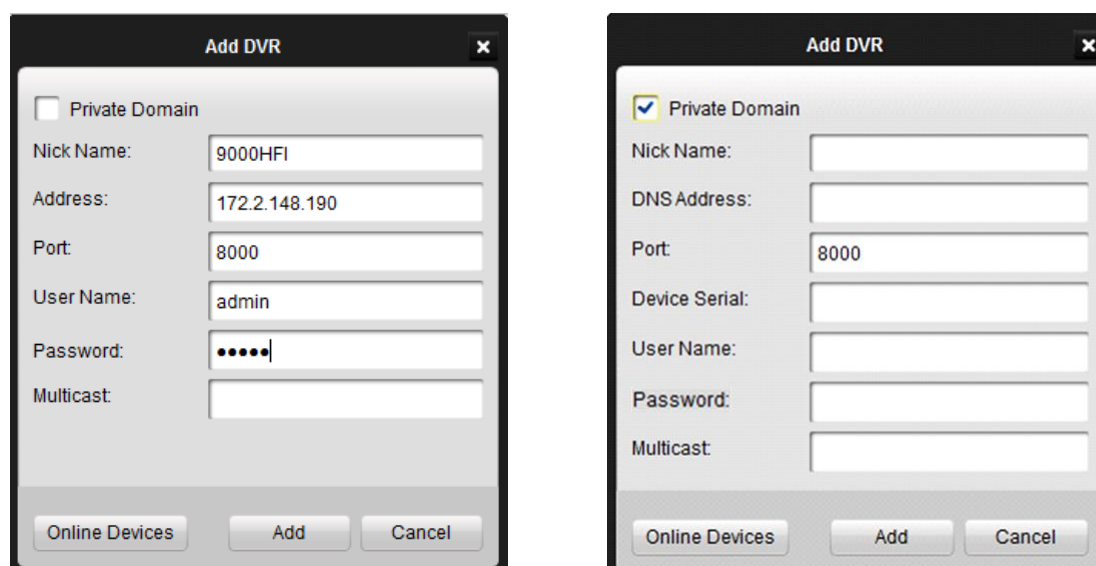


Figure 4.1 DVR Management- Add DVR

iVMS-4200 is able to automatically search all the online devices within the same local area network. Click **Online Devices** button on the Add DVR interface, and the system will automatically search the online devices by SADP software, and the devices found will be listed on the panel with detail information. Refer to Figure 4.2.

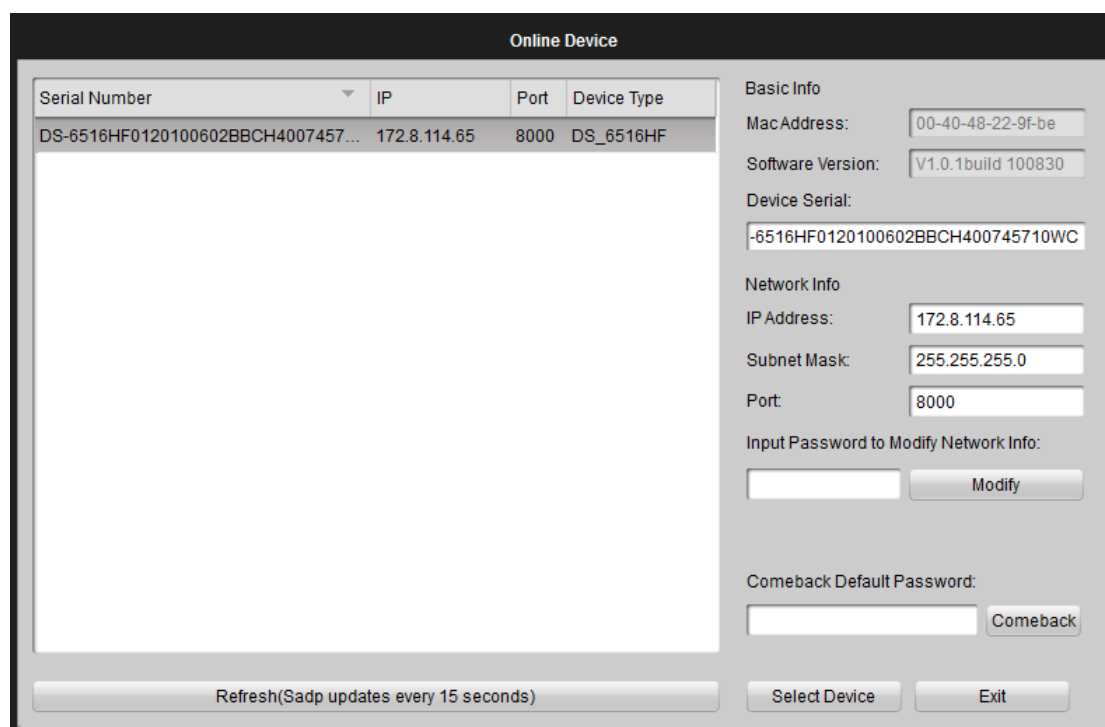


Figure 4.2 Add DVR-Search Online Devices

Select a device from the list and then click the **Select Device** button, and the following message box will pop up:

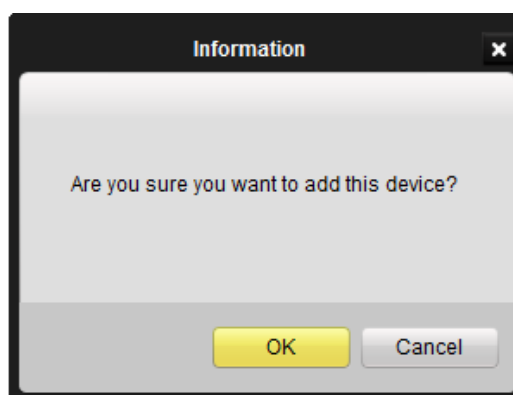


Figure 4.3 Add DVR-Confirm Adding of Device

Click **OK** to complete the adding of the selected device.

**Note:** The SADP software must be installed on your computer before searching online devices.

### 4.1.2 Device Configuration

After having added the device according to the above steps, click **Config** to enter the Device Parameters configuration interface (Figure 4.4). User is allowed to view and configure the following settings: Status, General, Channels, Network, Alarm, User, HDD, Exception, Files, Log, Other and Zero Channel.

**Note:** The Zero Channel configuration option is only available for the connected DVR device which supports zero channel function.

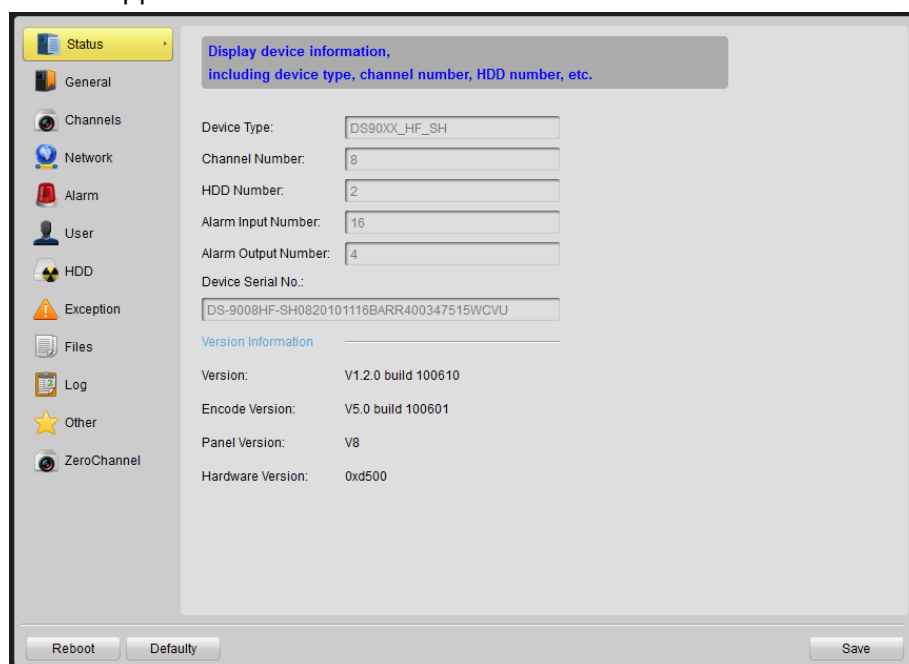


Figure 4.4 Device Parameters

Settings Menu of DVR Management:


Menu	Description
<b>Status</b>	Display device information, including device type, channel number, HDD number, etc.
<b>General</b>	Configure general parameters of device (e.g., device name, device No., etc.).
<b>Channels</b>	Configure channel parameters of device (e.g., enable/disable analog camera, add/modify/delete IP camera, etc.).
<b>Network</b>	Configure network parameters (e.g., IP address, port, Email, etc.).
<b>Alarm</b>	Configure alarm input/output parameters (e.g., alarm input name, alarm input triggering method, alarm arming schedule and actions, etc.).
<b>User</b>	Add, modify and delete the user; assign operating permission to each user.
<b>HDD</b>	Configure HDD parameters; add, modify, delete and format the HDD.
<b>Exception</b>	Configure exception parameters of the device, and set alarm linking method for each exception type.
<b>Files</b>	Search, play and remotely back up the record files of device.
<b>Log</b>	Search and view logs.
<b>Other</b>	Configure other parameters (e.g., RS-232, remote upgrade, etc.).
<b>Zero Channel</b>	Configure zero channel settings (e.g., enable/disable

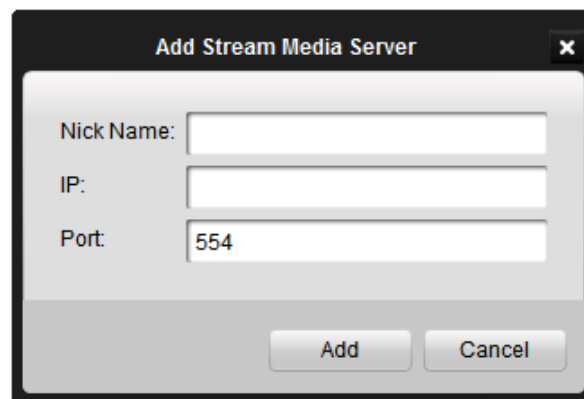
	zero-channel coding, Max. bitrate, frame rate, split screen mode, dwell time, etc.)
--	-------------------------------------------------------------------------------------

Go back to the device management interface, and click **Modify** to change the device information, and Click **Remove** to delete the device.

## 4.2 Add a Stream Media Server



Click  to enter the Stream Media Server configuration interface. And then click **Add**, the configure dialog box will popup as below.



The dialog box titled "Add Stream Media Server" contains three input fields: "Nick Name:", "IP:", and "Port:". The "Port:" field has the value "554" entered. At the bottom right, there are two buttons: "Add" and "Cancel".

Figure 4.5 Add Stream Media Server

Input the Nike Name, IP address and Port (the Port 554 is the default RTSP number), and then click **Add** to save it.

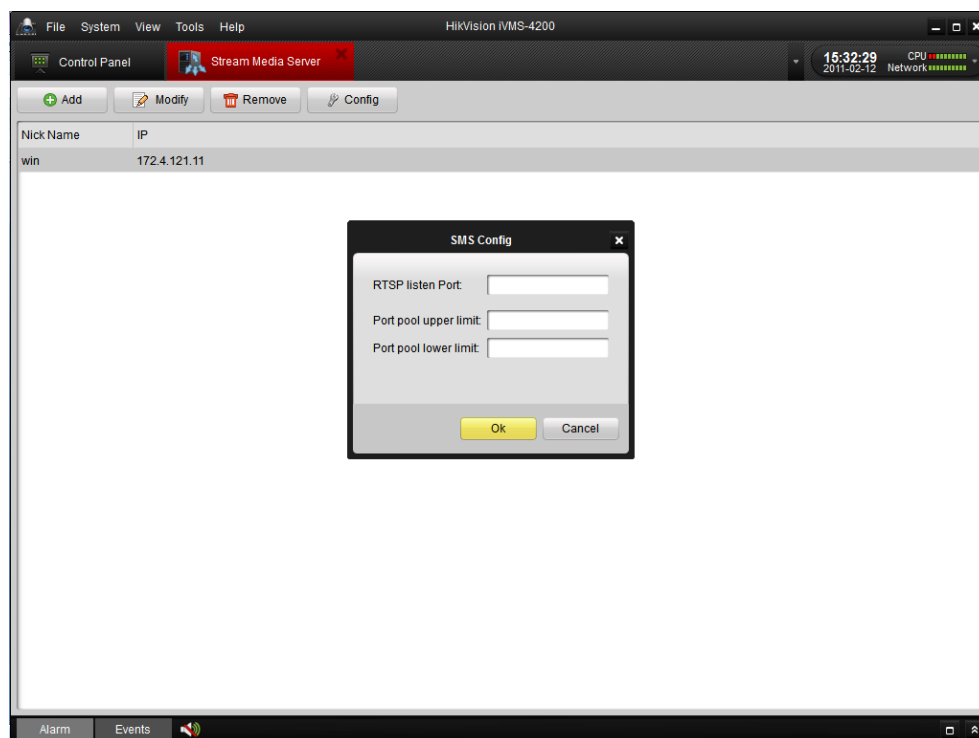


Figure 4.6 SMS Configuration

Click **Modify** to change the Nick Name and IP address.

Click **Remove** to delete the Stream Media Server.

Click **Config** to configure the SMS with RTSP Listen port, Port pool upper limit and Port pool lower limit.

## 4.3 Add a Group

After adding the target device, please return to the control panel interface and click **Camera Import** to enter camera group configuration interface (Figure 4.7). And then click **Add** to create a group in the right area (Figure 4.7, Figure 4.8). Select the camera in the left area, and then click **import** or **import all** to add the cameras to the group. User can also hold the Ctrl key and select multiple channels each time.

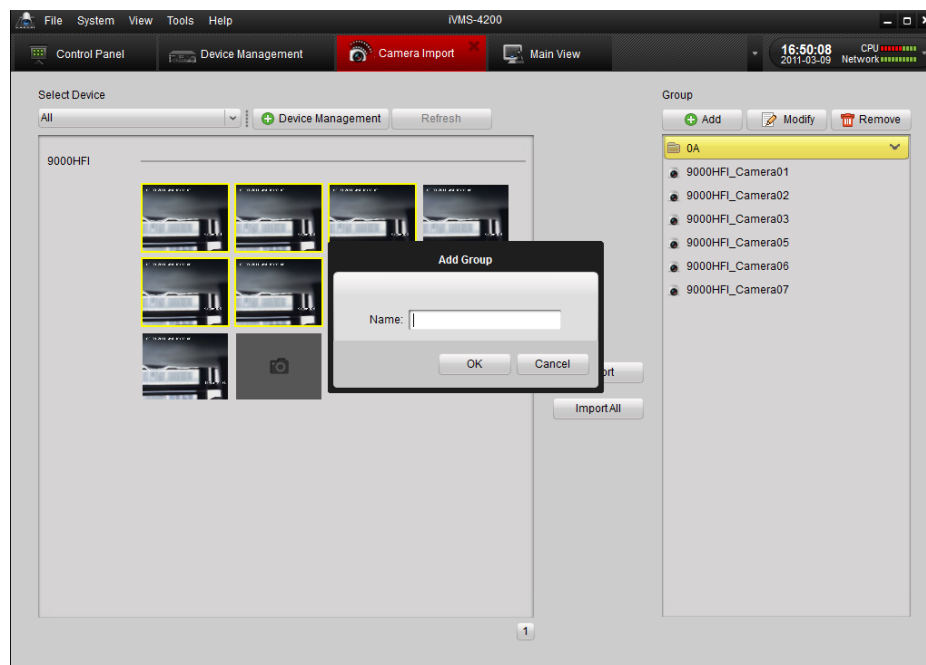


Figure 4.7 Camera Import - Add a Group

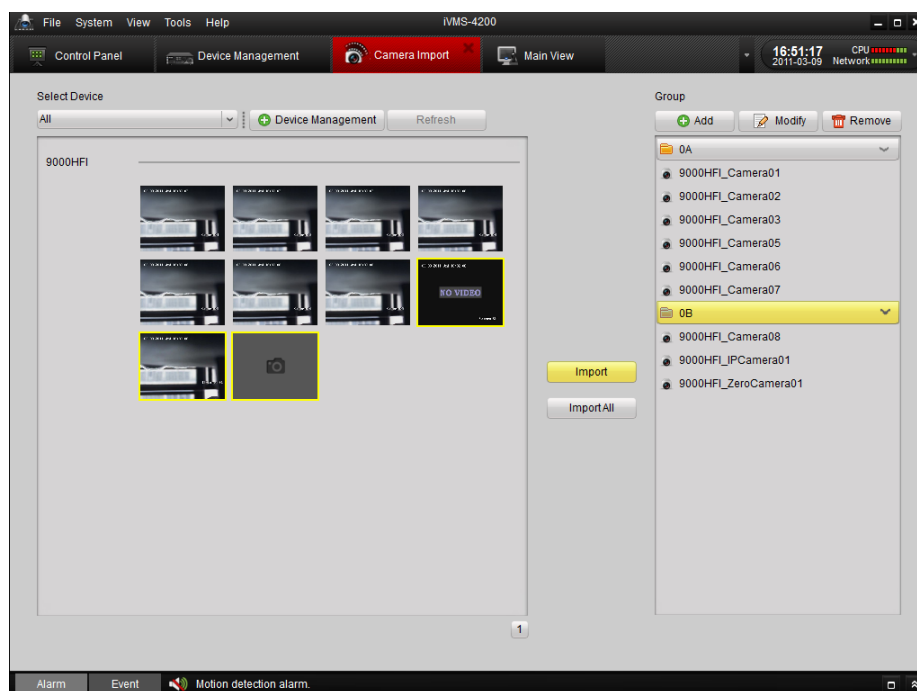


Figure 4.8 Camera Import –Finished

Click **Remove** to delete the added group or camera.

Click **Modify** to modify the group No. and camera's information in the group.

## Chapter5. Live View & Control

### Note:

A camera group is required to be defined before live view. For the group operation, please kindly refer to the last chapter.

### 5.1 Main View Components

Please click the icon "Main View" of the control panel, or click View -> Main View on the toolbar to start live view.

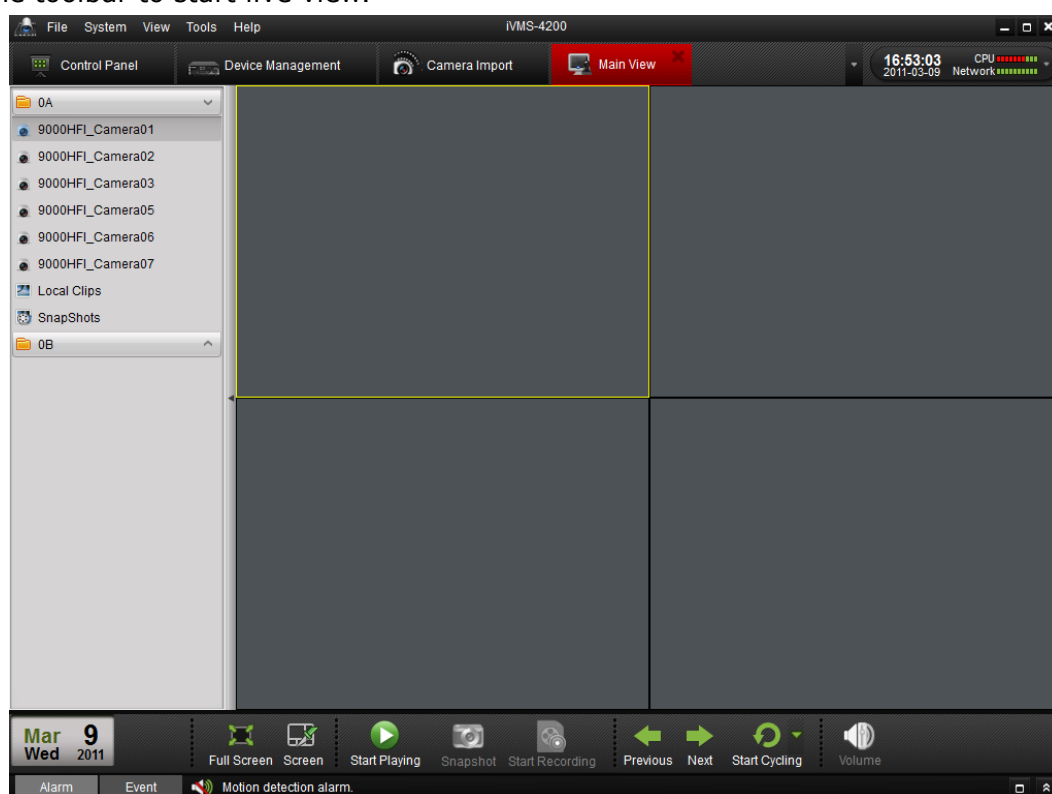














Figure 5.1 Main View Interface

Icons in the camera list:

Icon	Description
	Camera is connected and works normally
	Camera is not connected
	Camera is in preview
	Camera is in recording

Main View Buttons:



Button	Name	Description
	Layout	Select different layout mode
	Full Screen	Display video in full screen mode, click again to restore
	Close All	Stop the display of all cameras
	Manual Record	Start manual record for the corresponding cameras, click again to stop
	Manual Switch	Click to view previous and next camera
	Auto Switch	Start auto switch by cameras or by groups
	Volume	Adjust the volume for live audio
	Live Audio	Enable/disable live audio



## 5.2 Start Live View

To view the live video, drag the camera from the list to the right display window, or double click the camera node to view the live video (Figure 5.2).

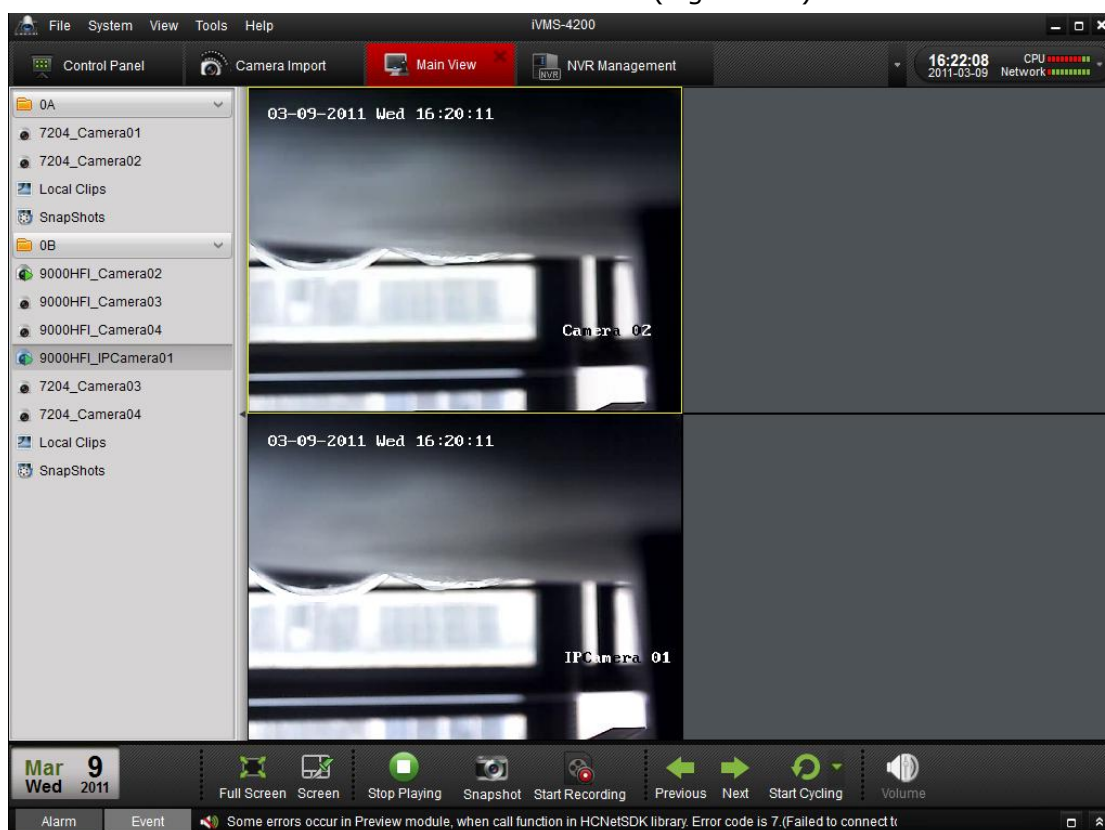




Figure 5.2 Start Live View

Toolbar in each display window:



Button	Description
	Take a snapshot of the camera
	Start manual record, click again to stop
	Start voice talk, click again to stop
	PTZ control, 8 direction icons will be displayed on the video.
	Check the input camera status
	Go back to the camera configuration interface
	Stop live view
	Remote playback about 7 minutes record of current camera
	Audio button, click to open and close

## 5.3 Live View Snapshot

To get the snapshot of a live view camera, single click on the camera image to select that display window, and then click  icon on the bottom tool bar of Main view, or click  icon in the tool bar of this display window. A hint message will be displayed to remind the users if the snapshot is successful or not. If the snapshot is successful, there will be a link to the snapshot restoring path; and if the snapshot failed, there will be error messages accordingly.

## 5.4 PTZ Control


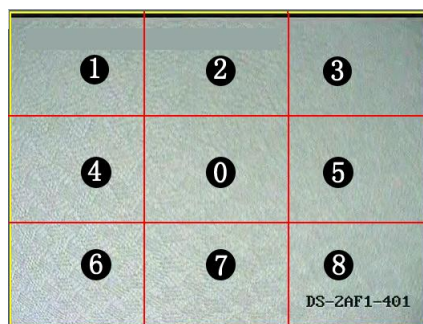
For the PTZ control, click the  icon on the tool bar of the display window, and the PTZ control panel will be displayed on the left side of the Main View (Figure 5.3).



Figure 5.3 PTZ Control
















There will be 8 directional buttons (up, down, left, right, upper left, upper right, bottom left, bottom right) on the display window when the mouse is located in the relative positions. Click on those directional buttons to control the PT function, or click the directional buttons on the PTZ control panel.

User can also control PTZ by dragging and clicking the mouse on the play window.



User the mouse to click on the video image, and then drag the mouse to different directions by following the arrows displayed on the video: ① ↗; ② ↖; ③ ↘; ④ ↙; ⑤ →; ⑥ ↗; ⑦ ↘; ⑧ ↖. The PTZ will move to the direction as the arrow goes.

Description of buttons on PTZ Control Panel:

Button	Description
	Zoom
	Focus
	Iris
	3D Position
	Light
	Wiper
	Directional buttons, click  to start/stop auto scan.
	Speed adjustment for PT function
	Preset configuration
	Pattern configuration
	Patrol configuration
	Call preset
	Add preset
	Delete preset

### 5.4.1 Preset






To add a preset for the PTZ, click the directional buttons and control the PTZ to a desired location, select a PTZ preset number from the preset list, and then click  and name this PTZ preset (Figure 5.4). To delete a preset, select the PTZ preset from the preset list, and then click  to remove it.





Figure 5.4 PTZ Preset

**Note:** Up to 255 patterns can be configured.

### 5.4.2 Pattern

To add a pattern for the PTZ, click the  button to enter the PTZ pattern path setup panel (Figure 5.5). Select a PTZ pattern path number from the pattern list, click  to enter edit mode, and click  to start recording of this pattern path.

Use the directional buttons to control the PTZ movement and click  to stop pattern recording. Click  to save the pattern path.

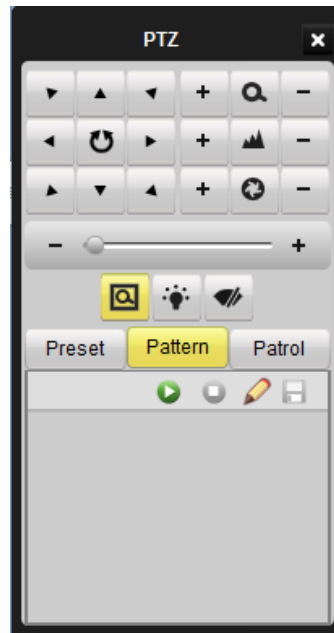






Figure 5.5 PTZ Pattern

### 5.4.3 Patrol

After adding two or more presets for one channel, you can set a patrol with presets for PTZ.

To add a patrol path for the PTZ, click the **Patrol** button to enter the PTZ patrol path setup panel (Figure 5.6). Select a track number from the list, and click  to add a preset (including setting the dwell time and PTZ speed for the preset) for this patrol path (Figure 5.7). Click  to call the patrol path or click  to stop calling. Click  to edit a preset in the patrol path.

**Note:**

1. Up to 16 patrols can be configured.
2. The patrol time can be set to 1~255 sec, and the patrol speed to level 1~40.

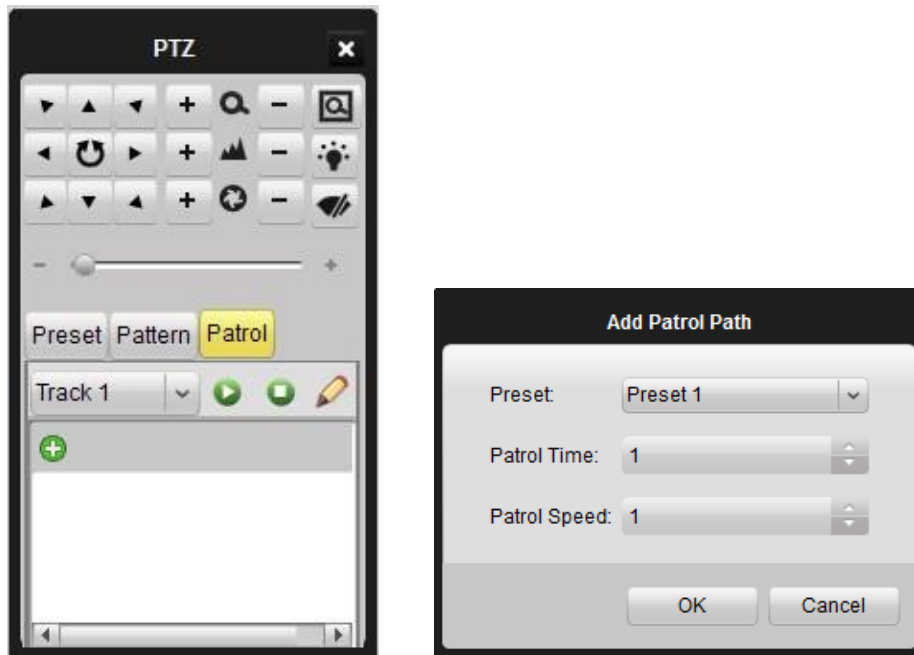
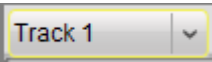


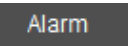
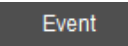




Figure 5.6 Add preset to patrol path

Repeat the above operation to add other presets to the patrol.  
 After configuration, you can choose the patrol from the drop-down list , and then call or stop them by clicking  or  key.

## 5.5 Alarm / Event View

### 5.5.1 View Alarm /Event Information

The main view interface provides the  and  buttons at the left bottom. Click the button to view the alarm or event information as shown in the panel. User may click  icon to show the alarm/event log list or click  to hide the list. Refer to Figure 5.7.

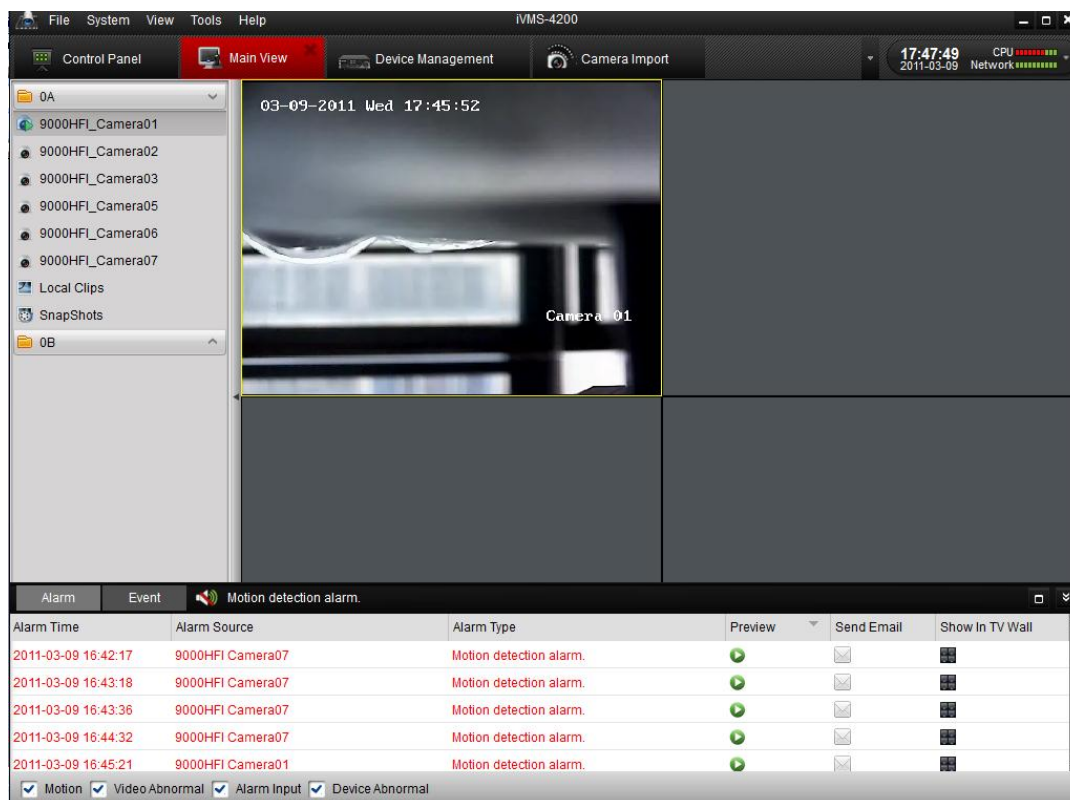


Figure 5.7 Alarm Log

User may also click icon to maximize the alarm/event log display panel as well and enable it to be shown in a new tab page.

Click the button at the top to close tab page. Refer to Figure 5.8:

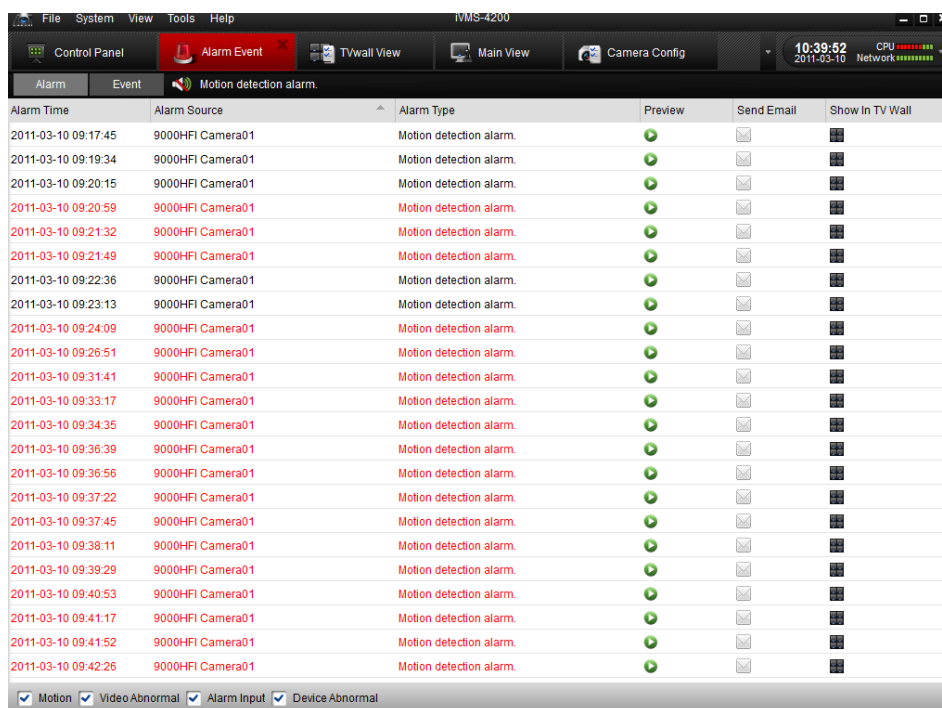



Figure 5.8 Alarm Log Tab Page

As shown above, in the alarm log display panel, 4 different alarm types are available: "Motion", "Video Abnormal", "Alarm Input" and "Device Abnormal".

User can select a log and right click it to remove it from the list by clicking .

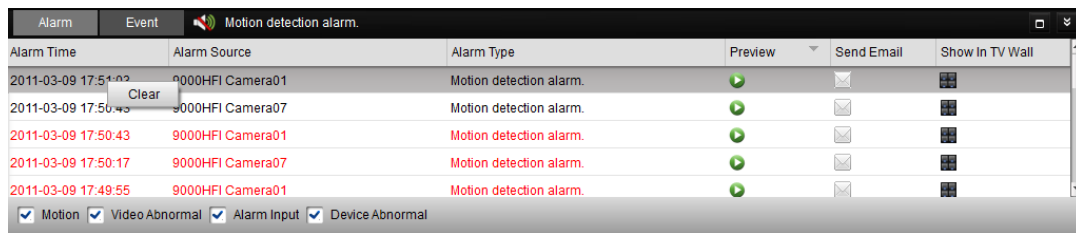





Figure 5.9 Clear Alarm Log

## 5.5.2 Alarm Log Linkage

Each alarm log has shown the relative alarm information, including alarm time, alarm source and alarm type.

User can click the ,  or  button to preview, send email or shown in TV wall of the selected log video.

**Preview:** View the live video of the selected alarm source camera. Refer to Figure 5.10.

**Send Email:** Send the alarm information by Email.

**Note:** User needs to configure Email settings in Control Panel→System Configuration→Email before using this function.

**Shown In TV Wall:** Enable the video from the alarm source camera to be decoded and displayed on TV wall.



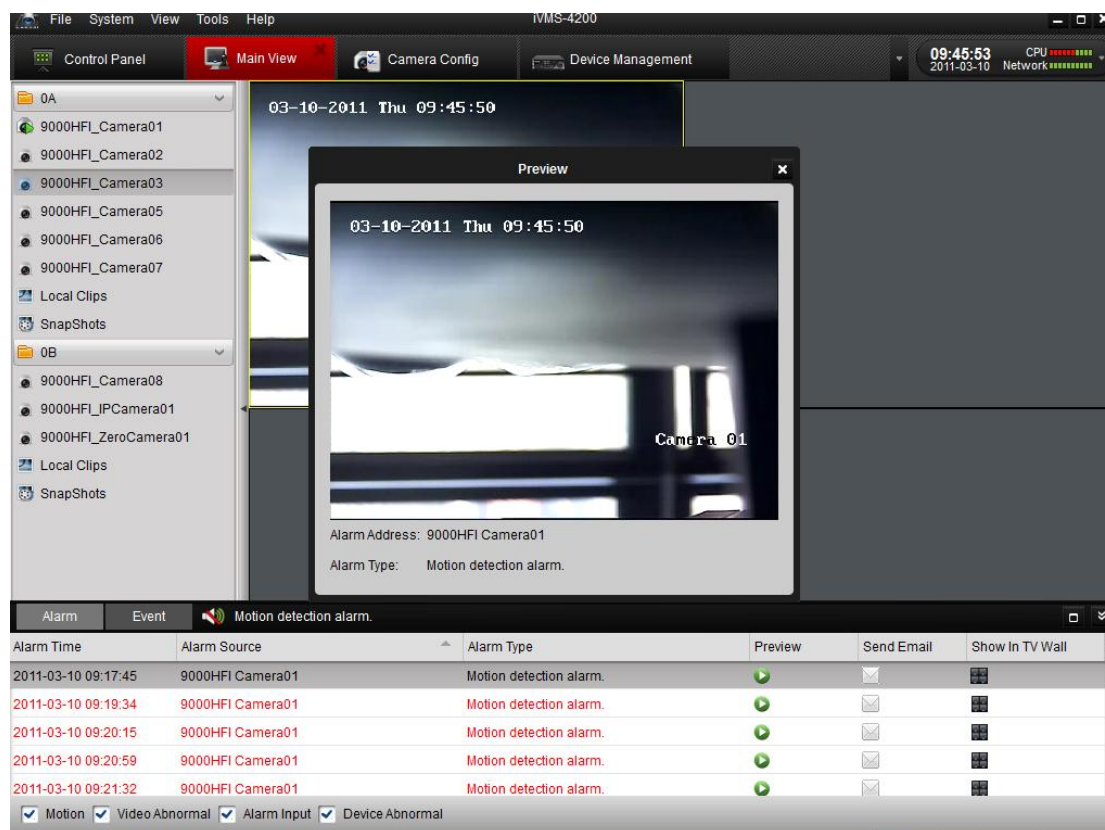


Figure 5.10 Alarm Log Linkage

## 5.6 Sub-screen View

Sub screens can be used for simultaneous display through the client software if multiple monitors are connected.

The sub screen may be used for preview, playback, Emap view, etc. and it can be moved to any position by dragging the mouse. Refer to the Figure 5.11.

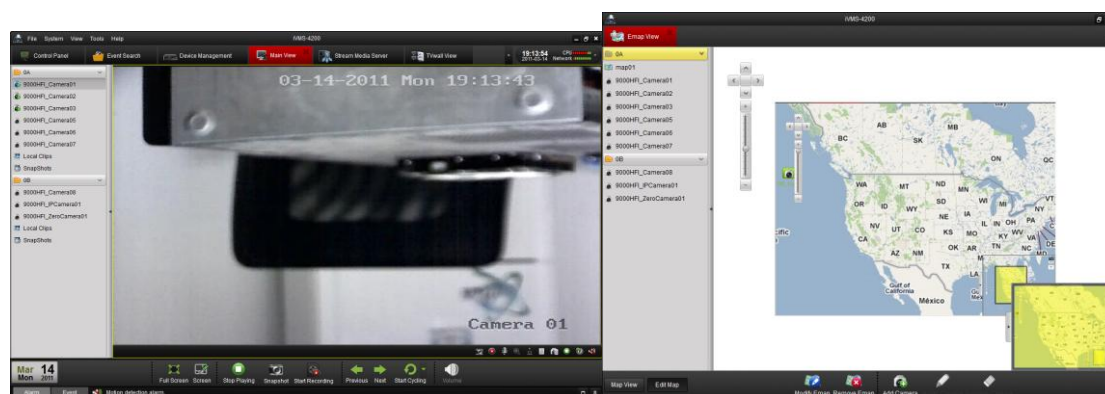




Figure 5.11 Sub-screen View and Operation

## Chapter6. Recording

iVMS-4200 software provides two main recording modes: Local Recording, NVR Recording & Remote Recording.

### 6.1 Local Recording

Local Recording (also known as Manual Recording) function allows you to record the live video instantly while in the Main View mode. Please take the following steps to start local recording:

1. Select a channel in the group and double click it to view the live video.
2. Then click  button at the bottom of main view panel to start to record the live video.
3. When you wish to stop recording, please re-click  button to finish recording. A prompt box will pop up if all the operations succeed, as shown in Figure 1.

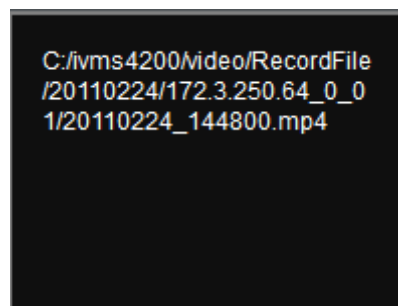


Figure 6.1 Local Recording Succeed

### 6.2 NVR Recording

Through iVMS-4200, user is able to configure the recording schedule for any added channels and store the recorded files in the NVR storage server.

#### 6.2.1 Add NVR Server

1. While installing iVMS-4200 software, please select PC NVR Server as well to enable NVR software, as shown in the following figure below.

**Note:** NVR Server and the client software can be installed on different PC.

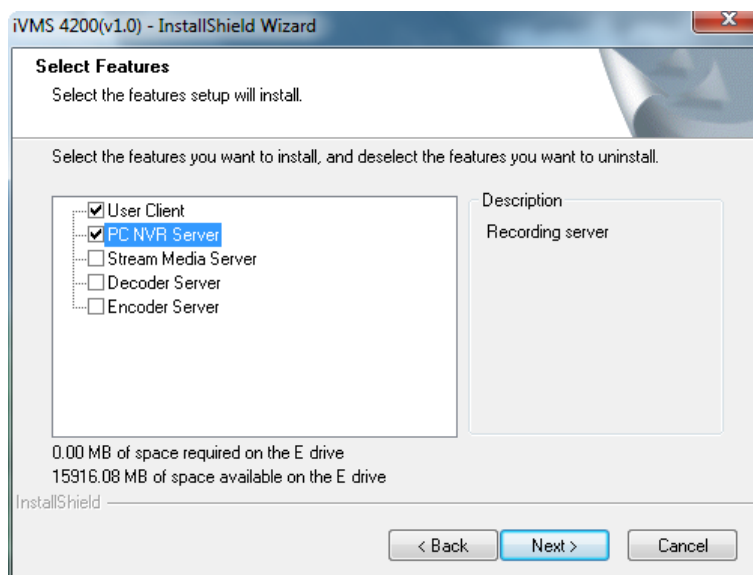
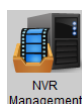
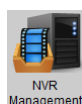
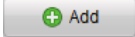


Figure 6.2 Install PC NVR Server



2. Click  button in the Control Panel then click  button to add NVR server.
3. Fill the NVR server login information including Nick Name, IP address or normal domain name, Port number, User Name (*admin* by default) and Password (12345 by default) shown as in figure below. Then click "Add" button to finish.

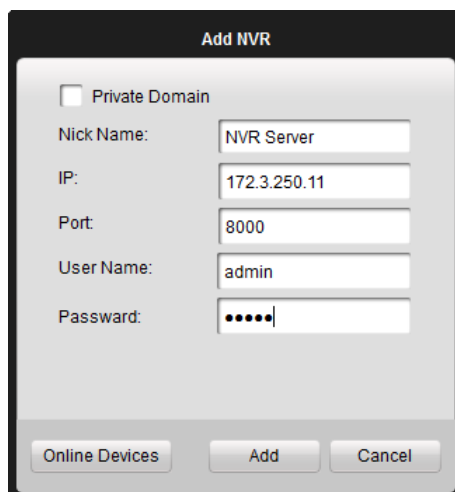

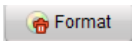


Figure 6.3 Add NVR

4. After NVR server is added successfully, click  button and go to HDD sub-menu and select a local HDD in the server for storing recorded files, then click  button to format the HDD, shown as figure below:

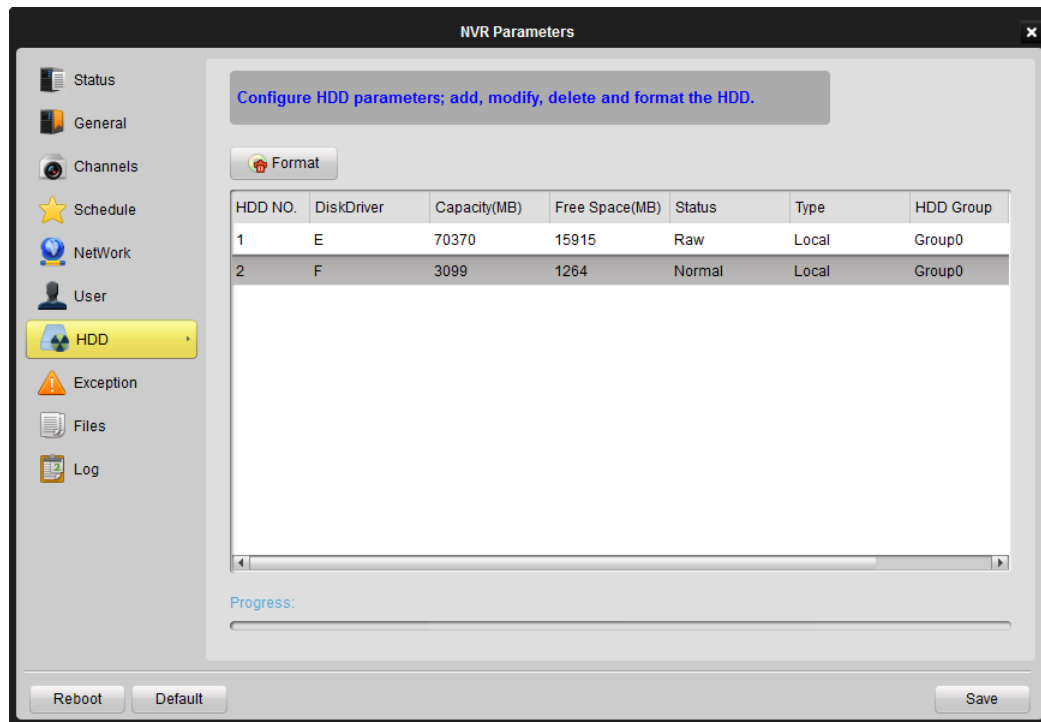





Figure 6.4 Format HDD

### 6.2.2 NVR Recording Schedule Setup

After having finished the adding of NVR server, user can define the recording template for the schedule recording settings.

1. Add Recording Channels: Go to Channels sub menu of the NVR, and click  button and select a channel from the group, shown as figure below. You may also remove or get the channel information by clicking  and  buttons.

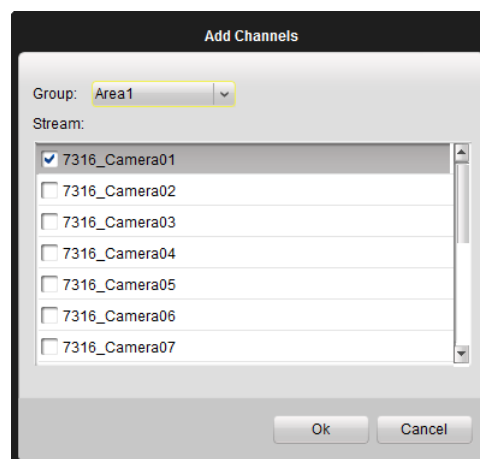



Figure 6.5 Add Channels

2. Recording Schedule Setup: First please select a channel from the drop-down box to record on. Then click  and select a recording

schedule from the templates shown as below:

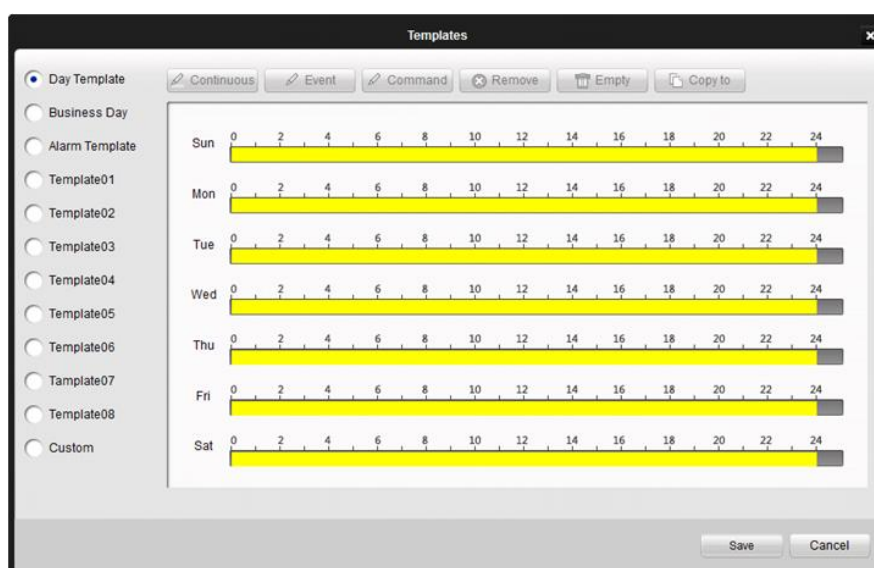


Figure 6.6 Recording Templates

This interface provides multiple choices of schedule template with 3 default template: Day Template for all-day continuous recording, Business Day for working-hours continuous recording from 8:00 AM to 8:00 PM; Alarm Template for all-day event recording) and 8 customized templates.

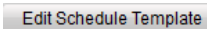
There are also three kinds of recording types:

- Yellow means continuous recording;
- Blue means event recording;
- Green means command recording.



Figure 6.7 Recording Types

The **Custom** template can be configured as below.

- a) Click **Remove/Empty** to delete existing schedule;
- b) Click **Continuous/Event/Command** to select Recording Mode;
- c) Drag the mouse on the schedule to specify a time bar (maximum: 8 bars), and the length of the time bar can be adjusted and the bar can be copied to other days. Click on the time bar to view the start and end time of this recording period.
- d) You may also define **Template01-08** by clicking  and repeating step a), b) and step c).

**Note:**

1. If you want to change recording resolution, bit rate or other recording parameters, please click **Quality** button in the **Camera Configuration** panel and modify the main stream quality as needed.
2. To ensure that event recording work properly, please set motion detection & video tampering area, schedule/alarm schedule first and then enable trigger

camera recording. More details in **Camera Configuration** Chapter.

3. Command recording function is only available when iVMS-4200 added **ATM DVR** while the ATM transactions are taking place.

## 6.3 Remote Recording

When the video storage devices are HDDs, NetHDDs or SD/SDHC cards installed in the DVR or IP cameras, users may adopt remote recording mode as well.

1. Format the HDD or SD/SDHC card: After adding the devices into iVMS-4200, please go to configure menu of Device Management Panel and then HDD sub-menu to format the storage devices first, shown as figure below.

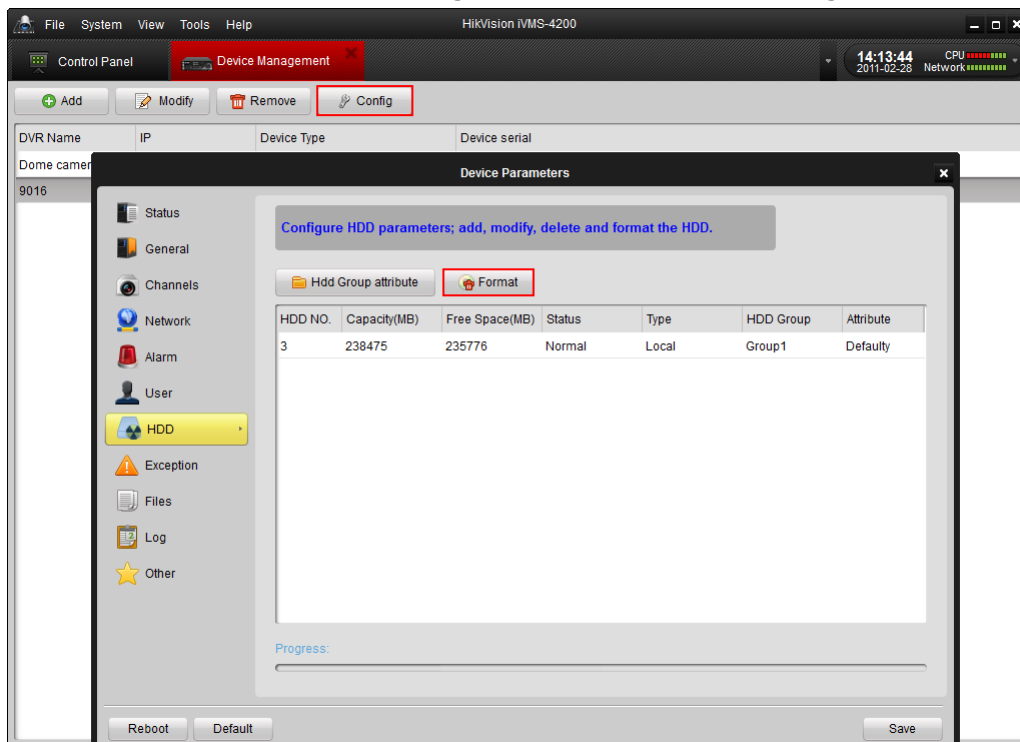


Figure 6.8 Format the HDD

2. Enable Use DVR option: Go to **Camera Configuration** Panel and tick the box in front of the Use DVR option of the Schedule tab.

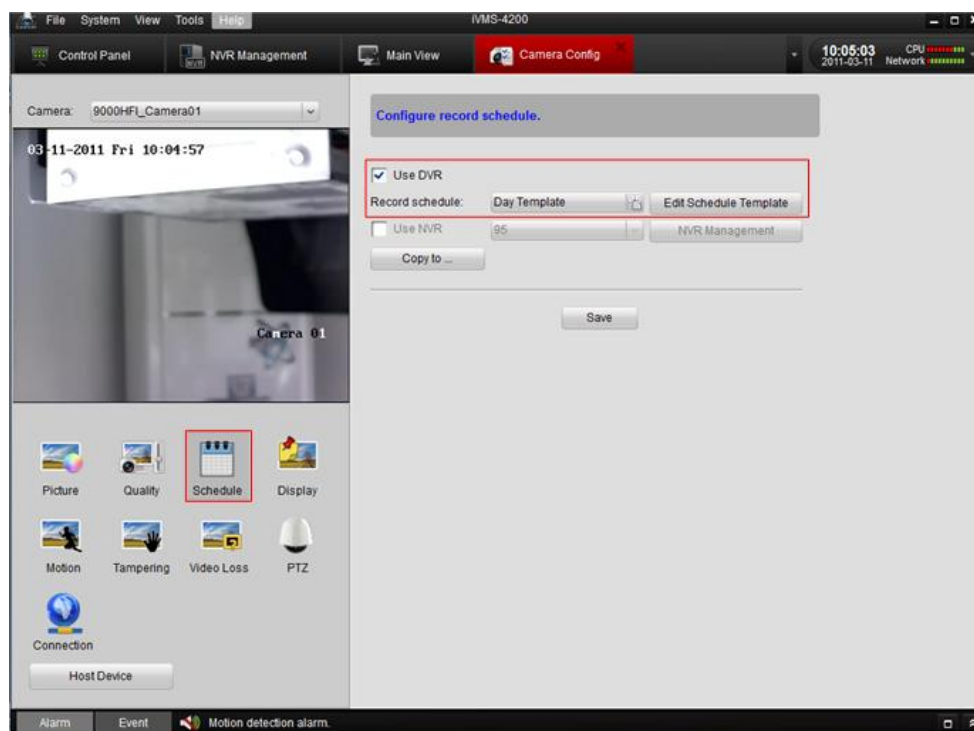


Figure 6.9 Enable Use DVR Option

- Recording Schedule Setup: After enabling the Use DVR option, please click **Custom** and select a recording schedule from the templates shown as below:

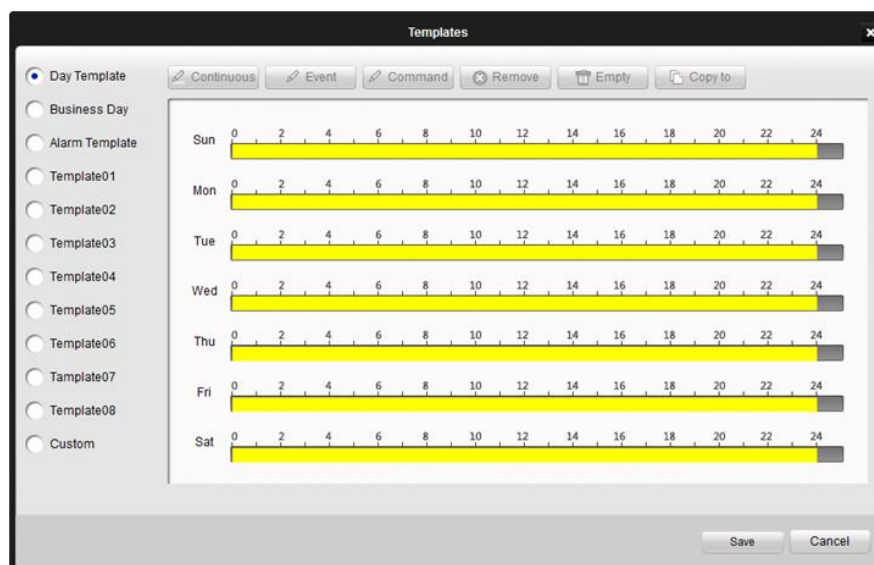


Figure 6.10 Recording Templates

This interface provides multiple choices of schedule template with 3 default template: Day Template for all-day continuous recording, Business Day for working-hours continuous recording from 8:00 AM to 8:00 PM; Alarm Template for all-day event recording) and 8 customized templates.

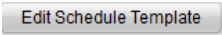
There are also three kinds of recording types:

- Yellow means continuous recording.
- Blue means event recording,
- Green means command recording.



Figure 6.11 Recording Types

The **Custom** template can be configured as below.

- Click **Remove/Empty** to delete existing schedule;
- Click **Continuous/Event/Command** to select Recording Mode;
- Drag the mouse on the schedule to specify a time bar (maximum: 8 bars), and the length of the time bar can be adjusted and the bar can be copied to other days. Click on the time bar to view the start and end time of this recording period.
- You may also define **Template01-08** by clicking  and repeating step a),b) and step c).

**Note:**

- If you want to change recording resolution, bit rate or other recording parameters, please click **Quality** button in the **Camera Configuration** panel and modify the main stream quality as needed.
- To ensure that event recording works properly, please setup motion detection area, schedule/alarm schedule first and then enable trigger camera recording. More details in **Camera Configuration** Chapter.
- Command recording function is only available when iVMS-4200 added **ATM DVR** while the ATM transactions are taking place.



## Chapter7. Playback

Based on the different recording modes, the playback function consists of three playback modes: Local playback and Event Playback.

### 7.1 Local Clips/Snapshots Playback

#### 7.1.1 Local Clips

Play back the video files created in local recording mode.

1. Go to Main View panel and click the **Local Clips** button to enter the Local Clips interface. Select a camera and specify the start time and the stop time, and then click **Search** button to search the video clips. The matched video clips found will be listed in the display panel below. Refer to Figure 7.1:

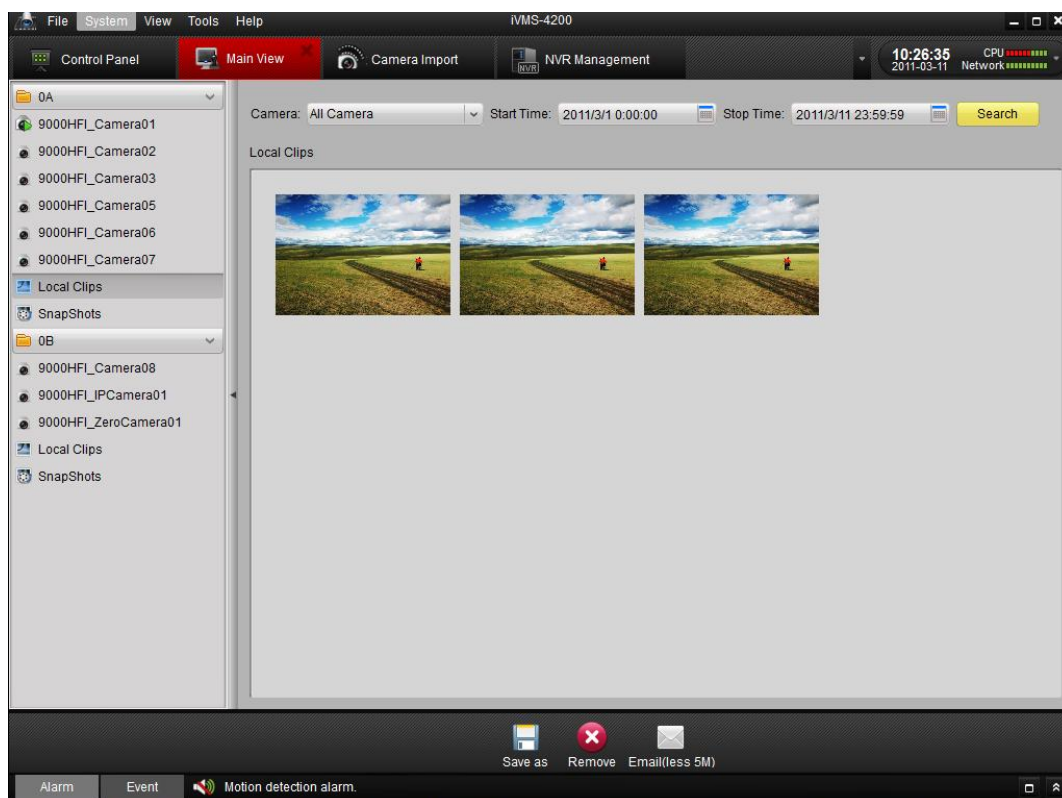










Figure 7.1 Search Local Clips

2. User can click  **Save as** button to save the selected video clip. User can also click  **Remove** to remove the clip from the panel, or click the  **Email(less 5M)** button to send the selected video clip by Email (size of video clip must be less than 5M).

3. Select a video clip and double click it, and then a player will pop up (refer to Figure 7.2). User can click  button to view the video, click  and  buttons to fast or slow play the video. Please note that  button is designed to play the video frame by frame, which means single clicking the button, the video will move one frame forward. If you want to play other video files in the local disk, please click  button and select a video file.

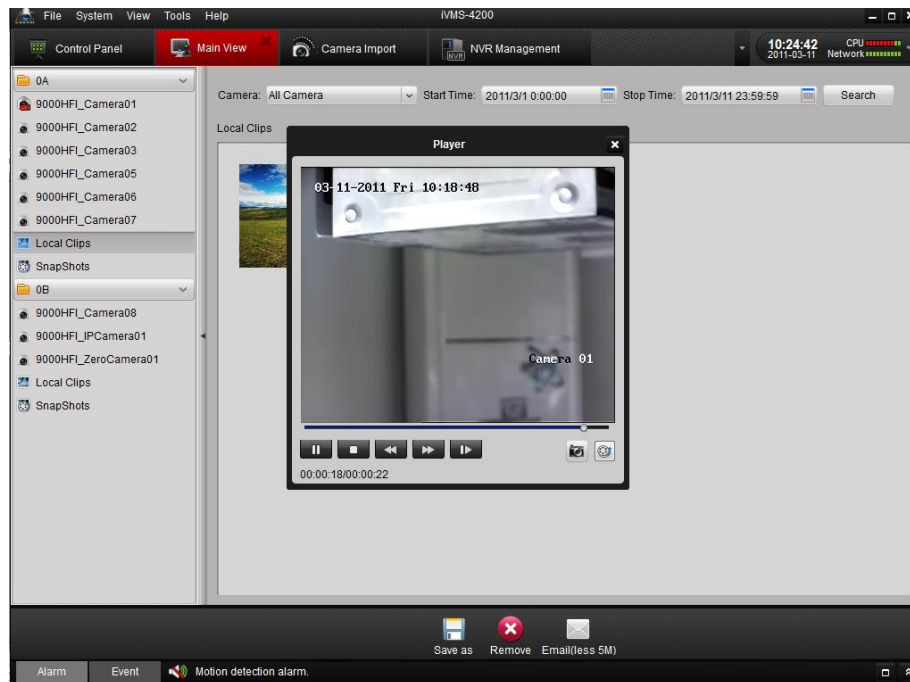


Figure 7.2 Play Video Clips

### 7.1.2 Snapshots

1. In the Main View panel, select **Snapshots** button to enter the Local Snapshots interface. Select a camera and specify the start time and the stop time, and then click **Search** button to search the snapshots. The matched snapshots found will be listed in the display panel below. Refer to Figure 7.3:

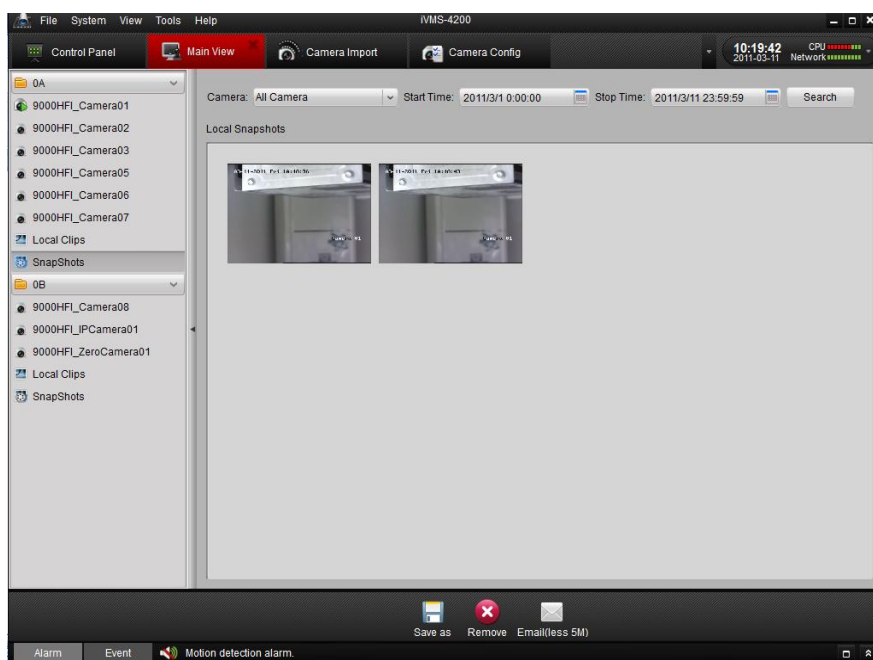


Figure 7.3 Search Snapshots



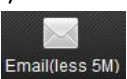

2. User can click  **Save as** button to save the selected snapshot, or click  **Remove** to remove the snapshot from the panel. User can also click the  **Email(less 5M)** button to send the selected snapshot by Email (size of snapshot must be less than 5M).
3. Select a snapshot and double click it to view the snapshot picture (refer to Figure 7.4).



Figure 7.4 View Snapshots

## 7.2 Playback

Play back the video files created in remote or NVR recording mode.

1. Go to Main View panel, double-click a channel to enable the tool bar shown as below, and click  button to start instant playback.

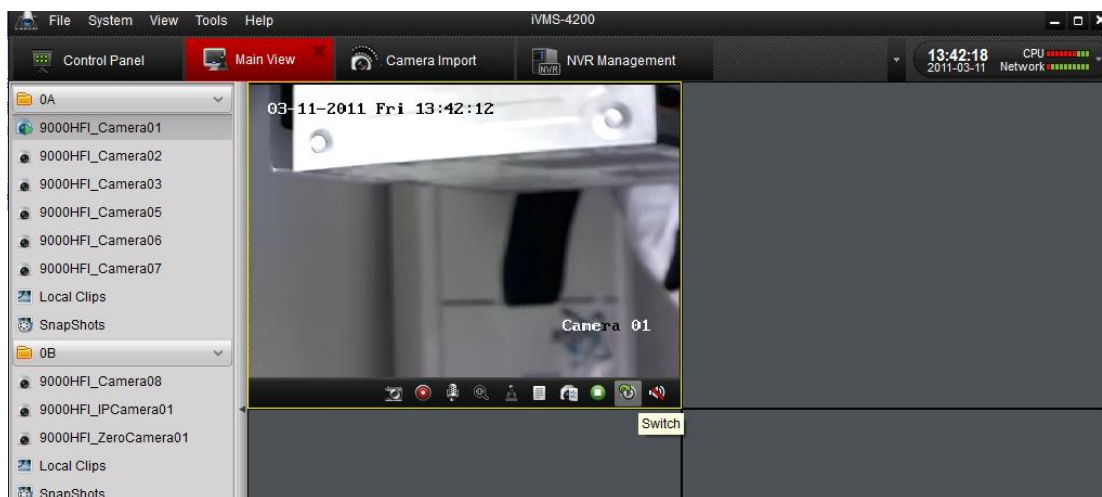






Figure 7.3 Switch Preview/Playback Mode

2. In instant playback interface, please click  button to start playback the first video files of current day; click  and  buttons to fast or slow play the video. Please note that  button is designed to play the video frame by frame, which means single clicking the button, the video will move one frame forward.






Button	Description
	Picture capture
	Start/Stop video cutting
	Download the video file
	Switch preview/playback mode
	Open/close audio



Figure 7.4 Playback



3. You may also use the time bar at the bottom of the Main View panel to adjust the playback progress. Also  and  buttons are used to expand and narrow down the time bar so user can choose a more accurate playback time.



Figure 7.5 Time Bar

## 7.3 Event Playback

Playback the video files of event type.

1. Go to Event Search panel and select an event type: motion or alarm input.
2. Choose a camera in the group and specify a start time, then click Search button.
3. Select a window, and double-click a video file from the search results list to play.

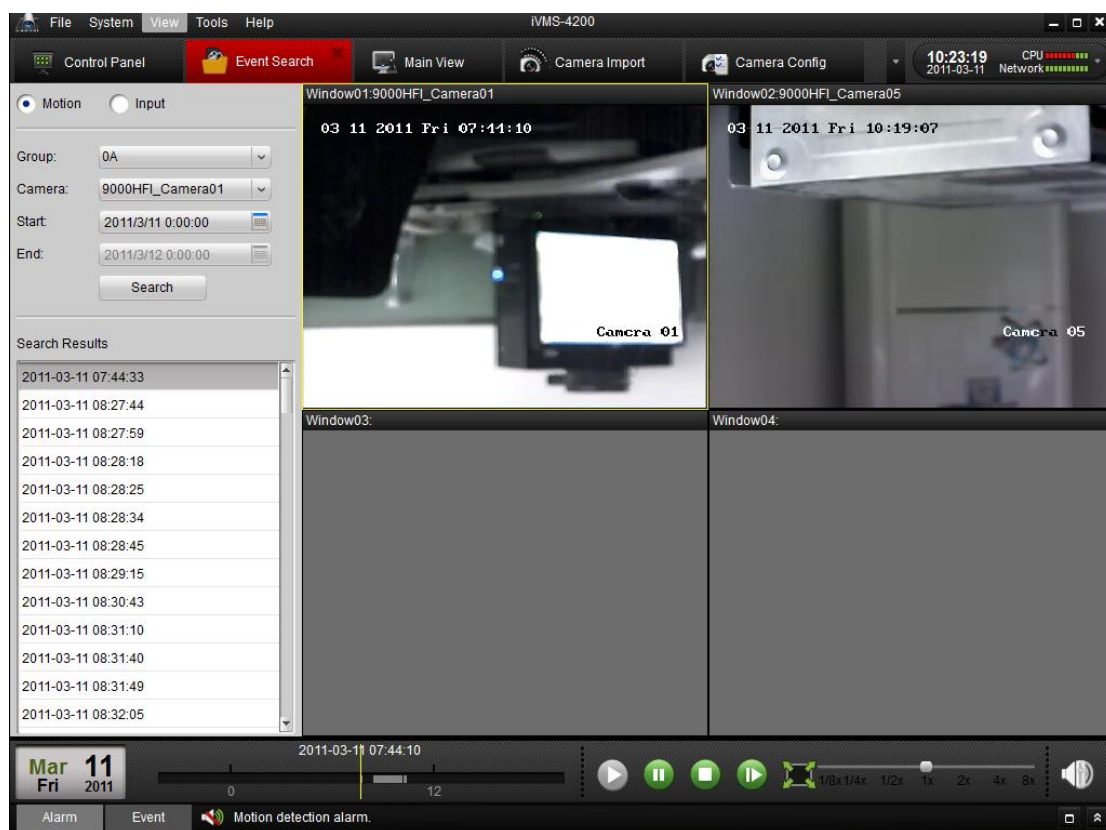


Figure 7.6 Event Search

- During playing back the video, you may right click the mouse in the image to get a drop-down menu as shown in Figure 7.7. Please refer to the table below for more details on this menu. You may also change playback speed by clicking on

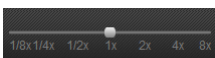






the  bar.



Figure 7.7 Event Playback

Button	Description
	Picture capture
	Start/Stop the video cutting
	Download the video file
	Audio button, click to open and close audio
	Select a recording-triggered channel for playback
	Full screen


**Note:**

1. Event playback function is only available for NVR/DVR which support event recording.
2. Make sure to import all the channels that you wish to play back in **Camera Import** panel.
3. It is also required to enable continuous recording on all the alarm/motion-triggered channels before event playback.



## Chapter 8. Backup

### 8.1 Snapshot Backup

1. After configuring all settings, click  to enter the main view interface (Figure 8.1). To preview the live video, drag the camera from the left list to the right display window.

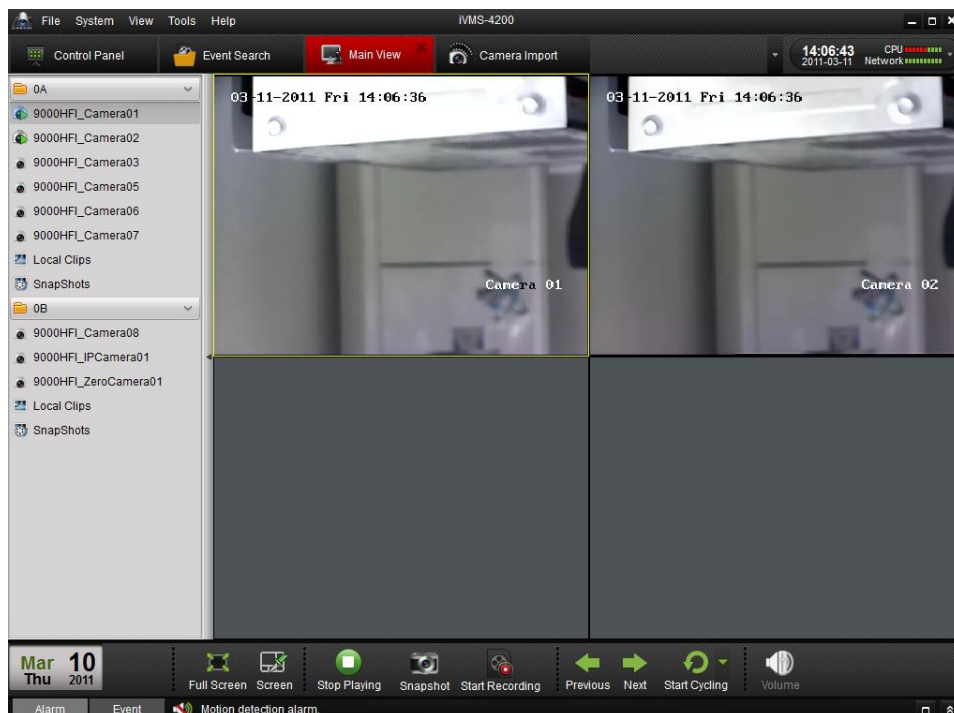



Figure 8.1 Main View

2. Click the  button to capture video picture in preview mode and a snapshot window will pop up at the lower right corner as shown in Figure 8.2.



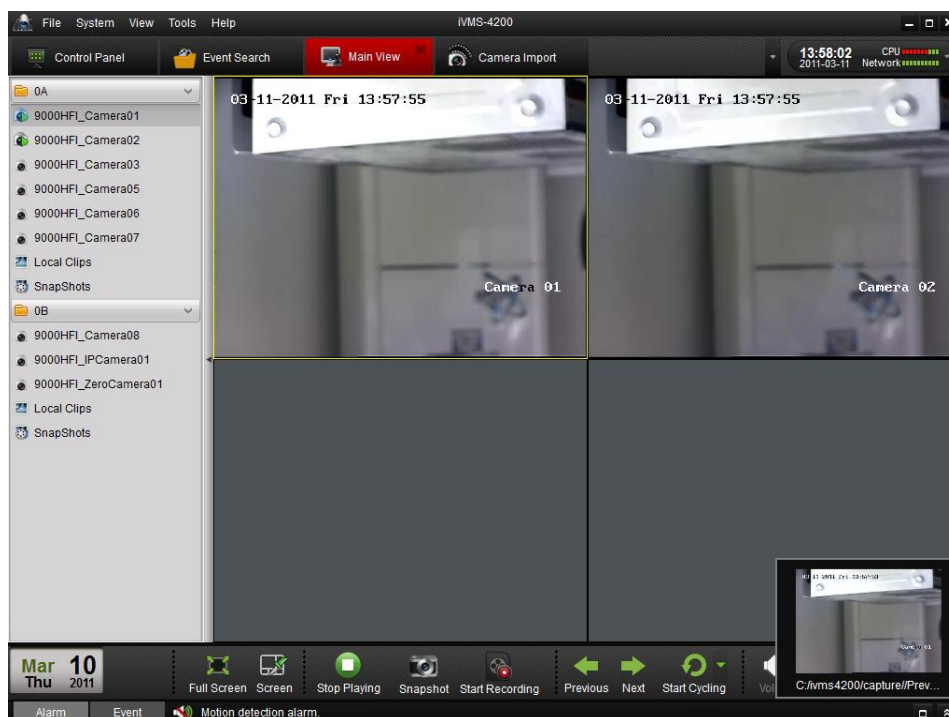


Figure 8.2 Picture Snapshot


3. Double click the popup snapshot window to maximize it (Figure 8.3), on which it shows the default saving path of the snapshot pictures. User can click the  button to change the saving path (Figure 8.4).



Figure 8.3 Maximize Snapshot Picture

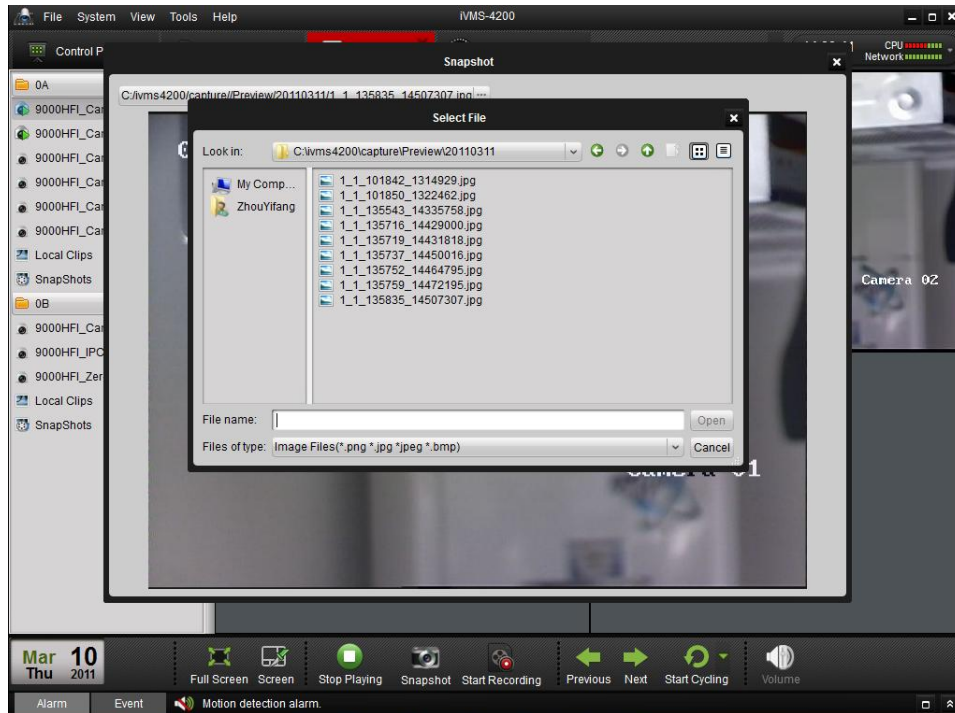



Figure 8.4 Change Saving Path of Snapshot

4. User can also save the snapshot by clicking  **Save as** button in the SnapShots interface. Please refer to *Section 7.1.2 Snapshots*.

## 8.2 Video Clips Backup

1. Go to Main View panel and click the **Local Clips** button to enter the Local Clips interface. Select a camera and specify the start time and the stop time, and then click **Search** button to search the video clips. The matched video clips found will be listed in the display panel below. Refer to Figure 8.4:

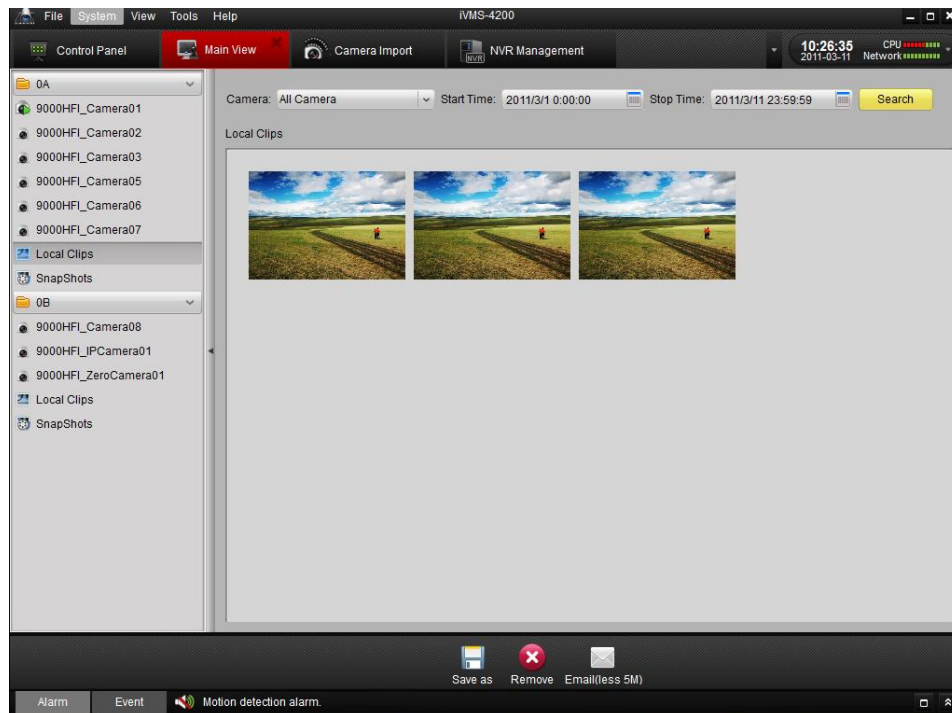



Figure 8.5 Search Local Clips

2. Click the  **Save as** button to back up the selected video clips.

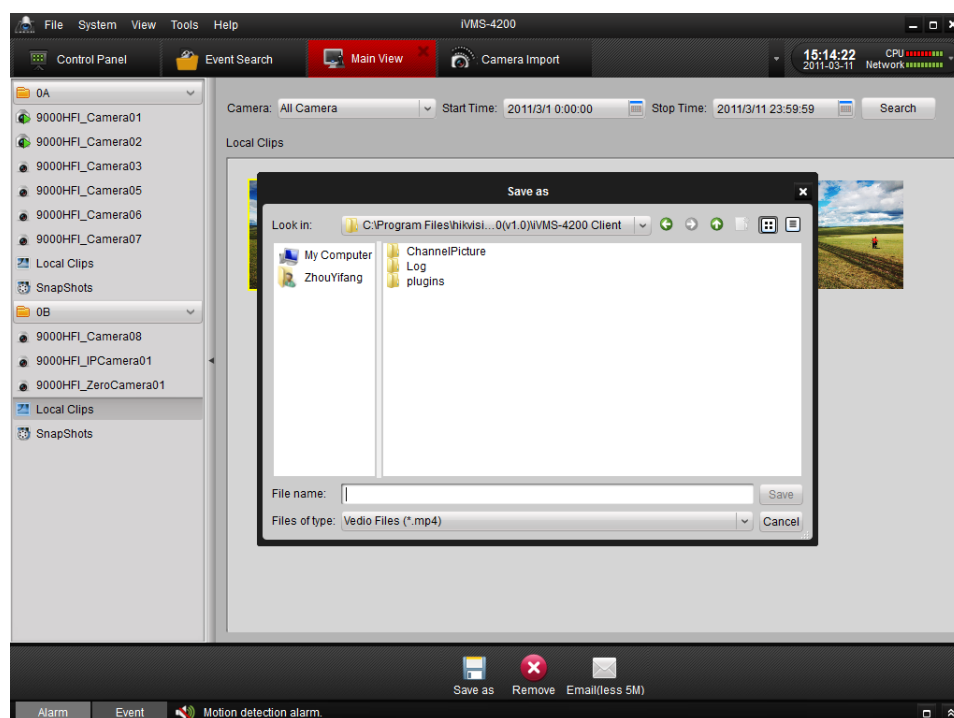




Figure 8.6 Save Local Clips

User can also click  **Remove** to remove the clip from the panel, or click the  **Email(less 5M)** button to send the selected video clip by Email (size of video clip must be less than 5M).

## Chapter9. Camera & Device Configuration

### 9.1 Camera Configuration

Click on the "Camera Configuration" icon  on the control panel to enter the camera configuration interface (Figure 9.1).

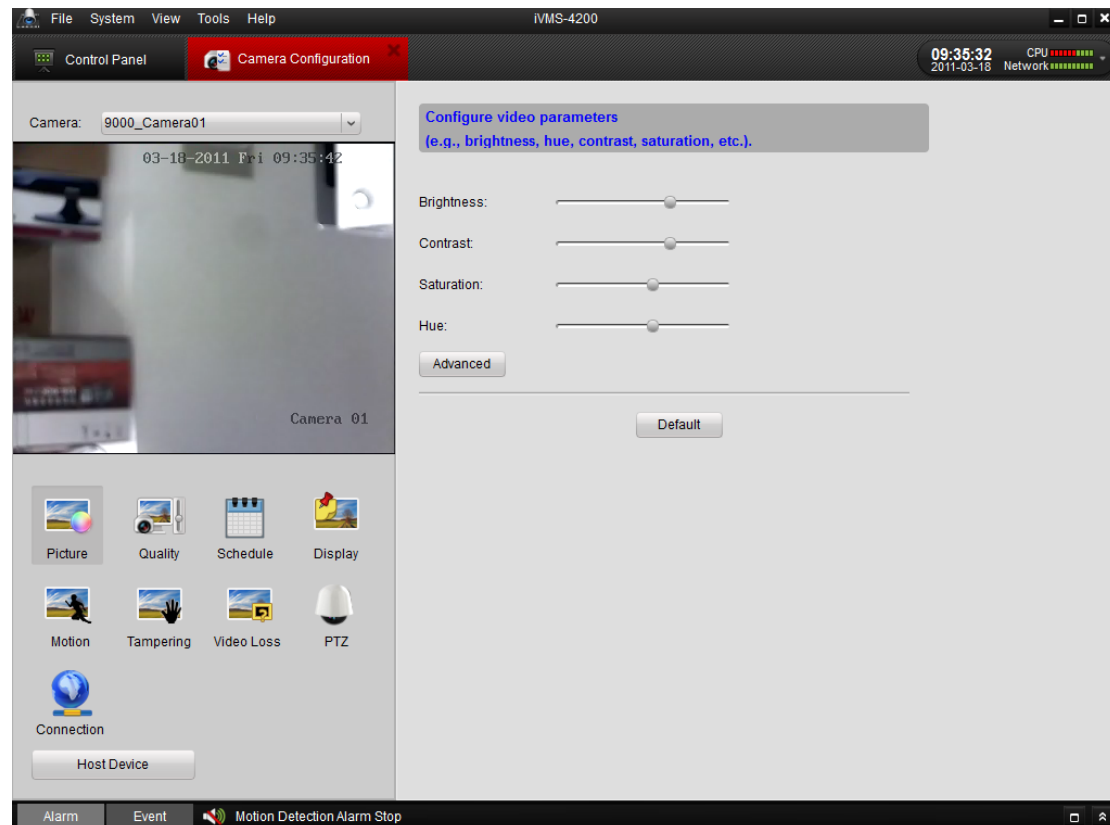












Figure 9.1 Camera Configuration

Select the Group name and Channel name for the camera on the upper left side of the interface, and the video image will be displayed in the region below. Click on different icons in the bottom left area to enter different configuration pages. Click on the  icon and the relative device configuration dialog box will be displayed.

Button	Description
 Picture	Video picture parameters configuration

 Quality	Video encoding quality configuration
 Schedule	Recording schedule configuration
 Display	Configure information to be displayed on the video
 Motion	Motion detect configuration
 Tampering	View tampering alarm configuration
 Video Loss	Video loss alarm configuration
 PTZ	PTZ Configuration
 Connection	Network parameter configuration for the camera

### 9.1.1 Picture

In the picture configuration interface, user can adjust the brightness, contrast, saturation and hue of the video image (Figure 9.2). Drag the round icon to adjust the level from lowest to highest.

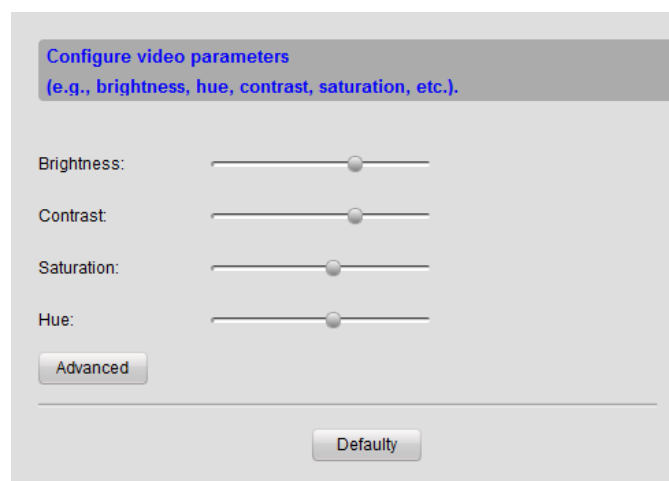
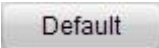
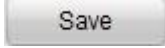


Figure 9.2 Picture Configuration

If the camera connected is from an IP camera which supports CCD parameter configuration, users can click the **Advanced** icon to enter CCD configuration interface. Please refer to the network camera user manual for detail description of

this operation.

Click  icon to restore default level of brightness, contrast, saturation and hue configuration.

After the entire picture configuration is completed, click  icon to save the configuration.

### 9.1.2 Quality

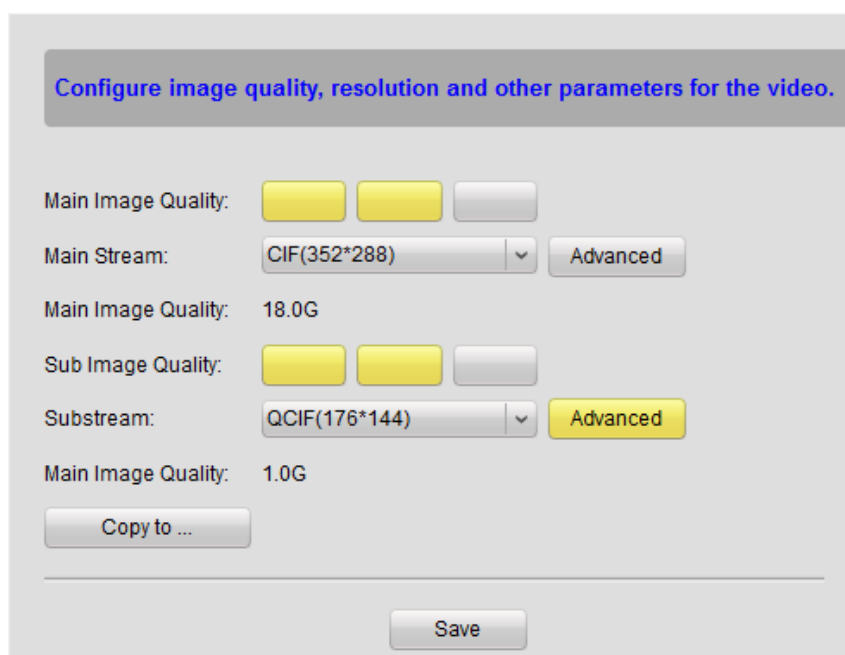



Figure 9.3 Quality Configuration

Users can set separate video resolution and video quality for main stream and sub stream. Select the encoding resolution in "Main stream" or "Sub stream", and click on the position of the block-indicators to select the appropriate video quality setting for the camera stream. 3 yellow blocks indicates highest video quality with highest bit rate consumption (please refer to "Main Image Quality" to get the data bit consumption under the current video quality settings), while 1 yellow blocks indicates lowest video quality & bit rate.

Advanced users can also click the  icon for more specific video quality settings including Stream Type, Bit Rate Type, Maximum Bit Rate, Frame Rate, Frame Type and I frame interval (Figure 9.4).

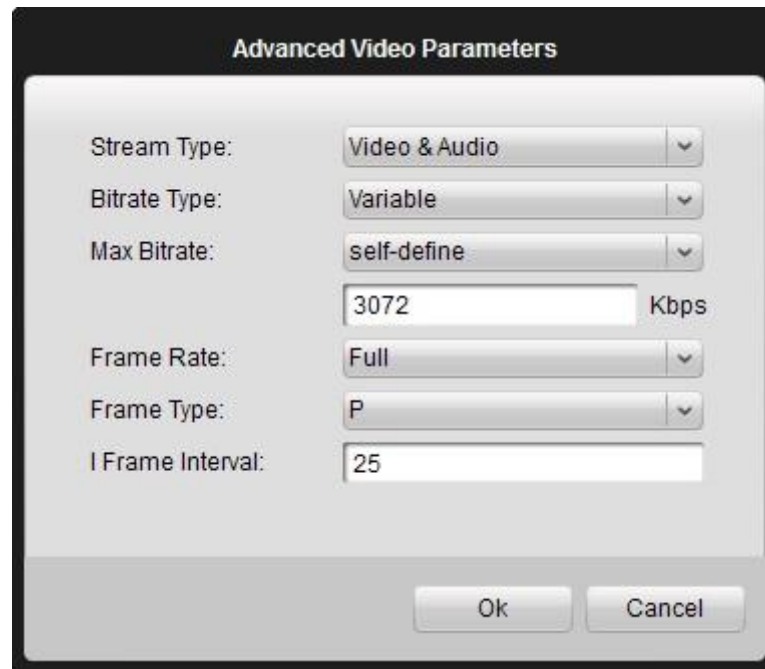


Figure 9.4 Advanced Video Parameters

### 9.1.3 Schedule

Users can set different recording schedules in this interface (Figure 9.5). "Use DVR" indicates that the recording schedule will be configured onto the device, and "Use NVR" indicates that the recording schedule will be configured onto a PC NVR Server software. To assign an NVR Server for the recording schedule, please click

**NVR Management**

to add 1 or multiple NVR server(s) (Figure 9.6), and then select the NVR server from the list.

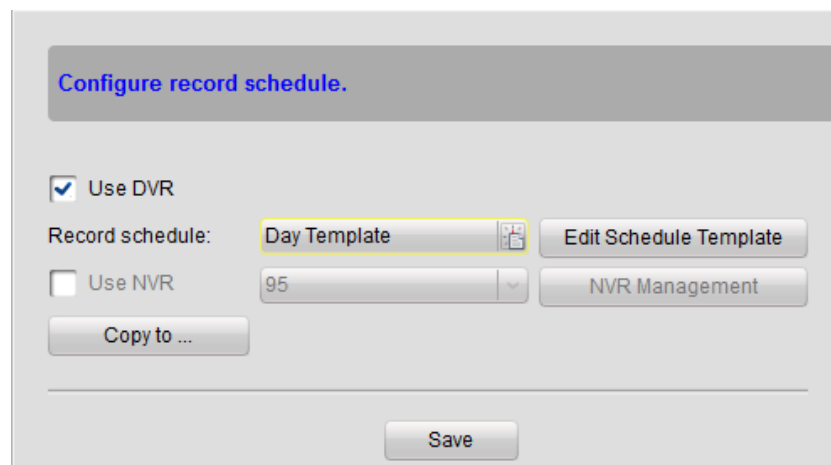



Figure 9.5 Schedule

Click **Edit Schedule Template** to enter Schedule Template setting page (Figure 9.6).

Click on **Continuous**, **Event** or **Command** to select different recording mode, and then use the mouse to drag on each day's time bar to configure the recording



schedule. Click on a colored (configured) time interval to get this time period being selected and displays the scheduled time, and then click [Remove] to remove the selected time section from the recording schedule, or click [empty] to delete the entire record schedule for the current template. Click [Copy to] to copy the selected schedule section to other day (s) and after all the template settings are done, click

 to save the changes.

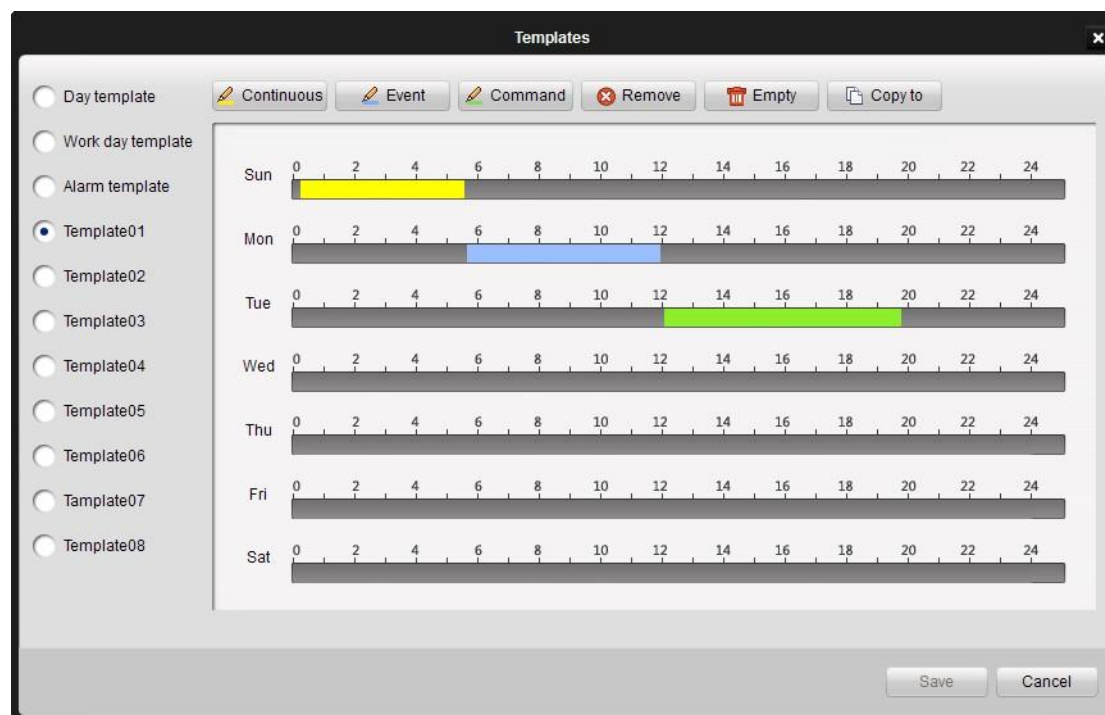


Figure 9.6 Edit Schedule Template

After schedule template has been configured and saved, user will go back to the schedule configuration page, and select the appropriate recording schedule from the list. Users can also click on the list and check the pop-up Schedule configuration page.

### 9.1.4 Display

1. The Display menu allows user to configure the display settings for the camera, including:

**Display Camera Name:** Display the camera title on the live video.

**Display Date:** Display the date on the live video.

**Display Week:** Display the week on the live video.

**Enable Privacy Zones:** Enable privacy zone function on the live video.

**Text Display:** Edit user-defined text to be displayed on the live video.



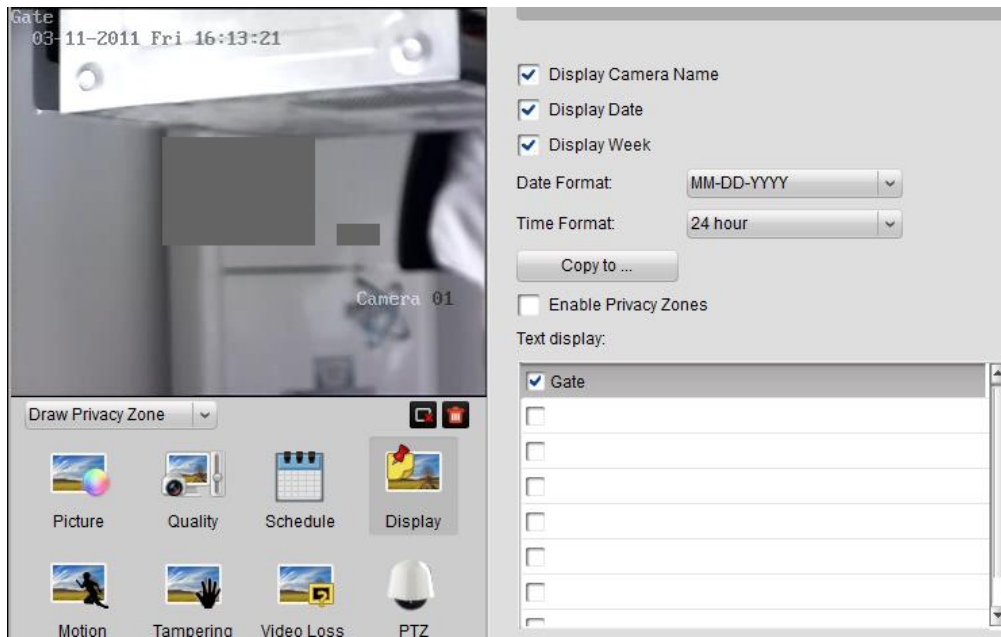


Figure 9.7 Display Settings

2. To configure the user-defined text content, click the checkbox in the text box below and then input the characters.

**Note:** After having edited the self-defined text in the text bar, user must click Save to enable the configured text to be displayed on the video. Refer to Figure 9.8:

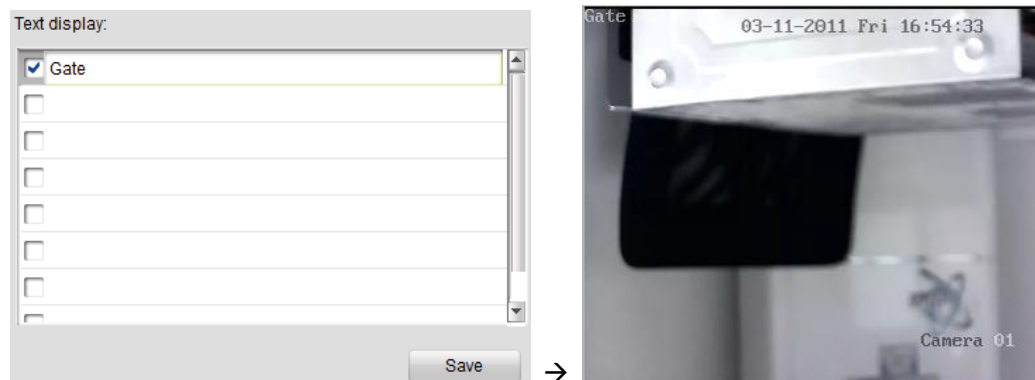


Figure 9.8 Edit Text Display

3. User can configure the OSD location and the privacy zone location & size on the video image.
  - a. Select **Draw OSD/Name/Text** option from the drop-down menu and then use the mouse to move the OSD to the desired location on the video image. Refer to Figure 9.9:



Figure 9.9 Configure OSD Location

- b. After having enabled the privacy zones function, select **Draw Privacy Zone** option from the drop-down menu to start drawing the privacy zones on the video image, and then use the mouse to move the privacy zone to the desired location or change the size. Please refer to Figure 9.10:

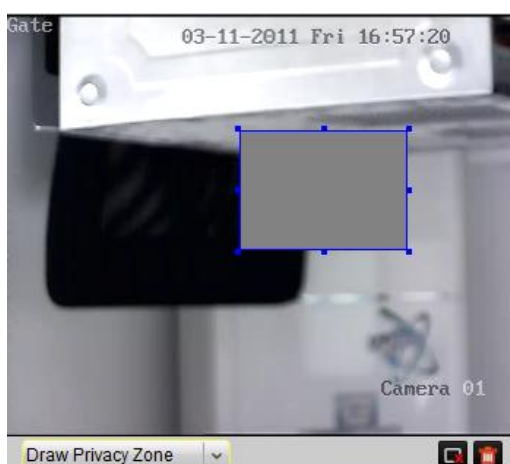




Figure 9.10 Configure Privacy Zone

- c. User can click the  button to remove the selected privacy zone, or click  to remove all configured privacy zones on the live video.

**Note:** Up to 4 privacy zones can be configured.

After all the display settings are completed, click  to save the settings.


### 9.1.5 Motion Detection


To configure the motion detection function of the camera, please check **Enable Motion Detection** in the Motion configuration interface (Figure 9.11), and select a time schedule for the motion detection to take effect. The schedule template can be

edited in the Schedule configuration interface.

Draw the motion detection area on the video image and set the sensitivity by

moving the sliding bar. User can click the  button to select the whole area for

motion detection, or click the  button to delete the selected motion detection

area, or select the  button to delete all configured motion detection areas.

The **Actions** has listed all the valid actions linked by motion detect. Check the actions that required to be done after motion detection is triggered.

**Audio Warning:** trigger audio warning on the device when motion detection is triggered.

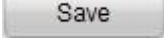
**Upload to Center:** upload alarm information to the CMS software when motion detection is triggered.

**Trigger Alarm Output:** activate 1 or multiple channels of alarm output when motion detection is triggered. Users need to specify the corresponding alarm output channel (s) in the alarm output channel list.

**Email Linkage:** send an Email when motion detection is triggered. The email account settings are configured under the Device Management→Config→Network→Email Settings.

**Warning on Monitor:** display warning on the local video output on the corresponding device of the selected camera.

**Trigger Recording:** trigger motion detection recording on the camera. Please select the camera (s) that required to be recorded on the motion detection of current camera in the camera input list.

After all the motion detection settings are completed, click  to save the changes.

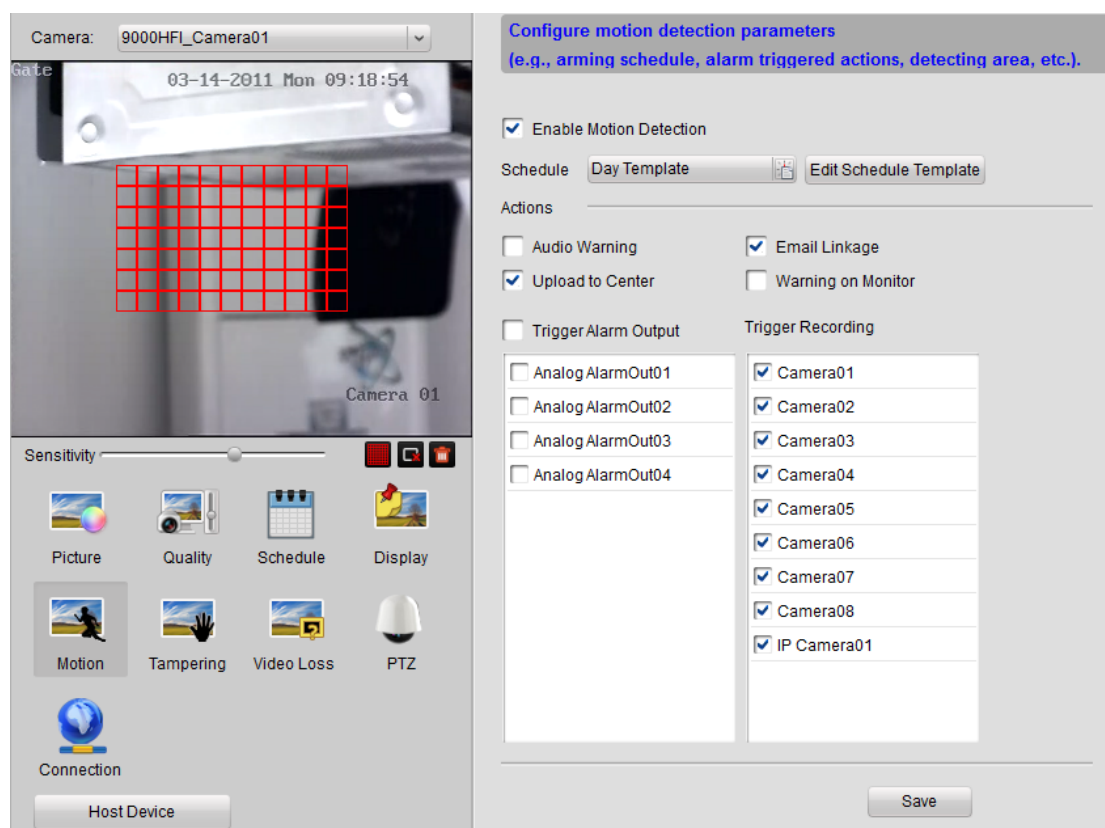


Figure 9.11 Motion Detection

### 9.1.6 Tampering

To configure the view tampering detection function of the camera, please check **Enable Tampering Detection** in the Tampering configuration interface (Figure 9.12), and select a time schedule for the tampering detection to take effect. The schedule template can be edited in the Schedule configuration interface.

Draw the video tampering area on the video image and set the sensitivity by moving

the sliding bar. User can click the  button to select the whole area for video

tampering detection, or click the  button to delete the selected tampering area.

The **Actions** has listed all the valid actions linked by view tampering. Check the actions that required to be done after tampering detection is triggered.

**Audio Warning:** trigger audio warning on the device when tampering detection is triggered.

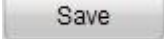
**Upload to Center:** upload alarm information to the CMS software when tampering detection is triggered.

**Trigger Alarm Output:** activate 1 or multiple channels of alarm output when tampering detection is triggered. Users need to specify the corresponding alarm output channel (s) in the alarm output channel list.

**Email Linkage:** send an Email when tampering detection is triggered. The email account settings are configured under the Device

Management→Config→Network→Email Settings.

**Warning on Monitor:** display warning on the local video output on the corresponding device of the selected camera.

After all the tampering settings are done, click  to save the changes.

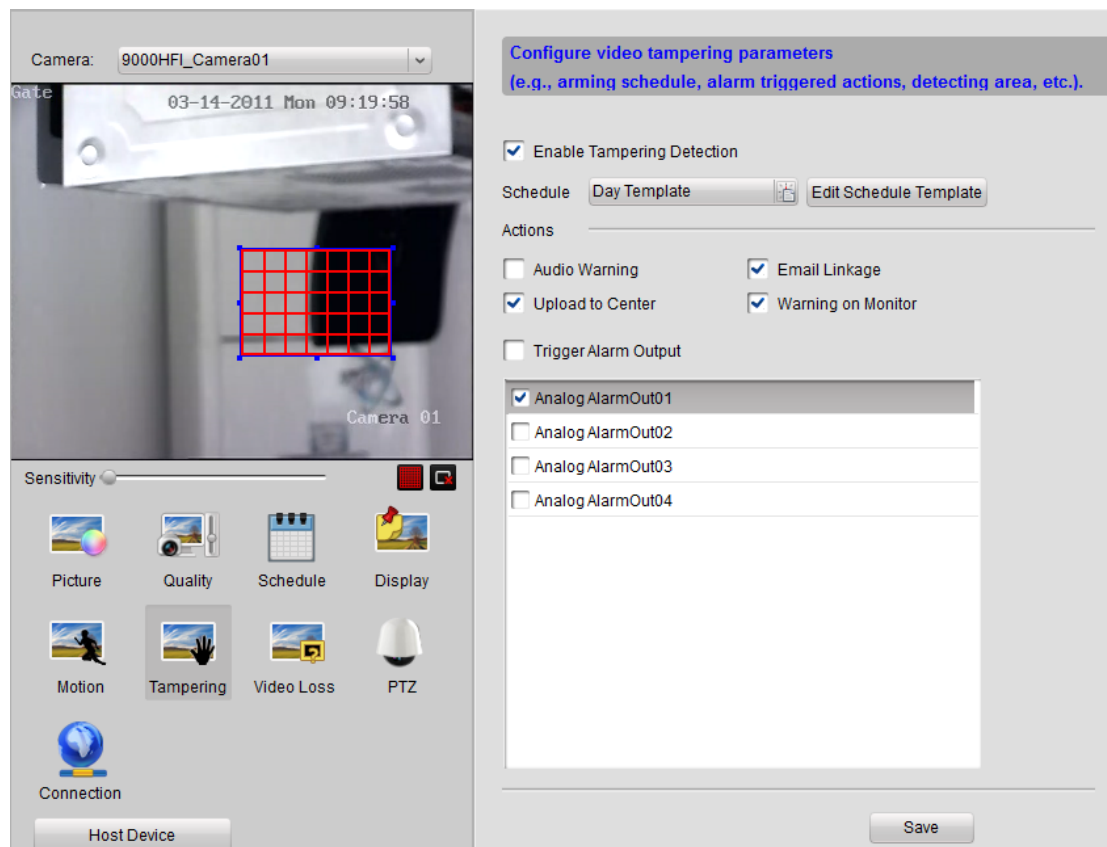


Figure 9.12 Video Tampering Detection

### 9.1.7 Video Loss

To configure the video loss detection function of the camera, please check **Enable Video Loss Detection** in the Tampering configuration interface (Figure 9.13), and select a time schedule for the video loss detection to take effect. The schedule template can be edited in the Schedule configuration interface.

The **Actions** has listed all the valid actions linked by video loss detection. Check the actions that required to be done after video loss detection is triggered.

**Audio Warning:** trigger audio warning on the device when video loss detection is triggered.

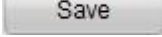
**Upload to Center:** upload alarm information to the CMS software when video loss detection is triggered.

**Trigger Alarm Output:** activate 1 or multiple channels of alarm output when video loss detection is triggered. Users need to specify the corresponding alarm output channel (s) in the alarm output channel list.

**Email Linkage:** send an Email when video loss detection is triggered. The email

account settings are configured under the Device Management→Config→Network→Email Settings.

**Warning on Monitor:** display warning on the local video output on the corresponding device of the selected camera.

After all the video loss detection settings are done, click  to save the changes.

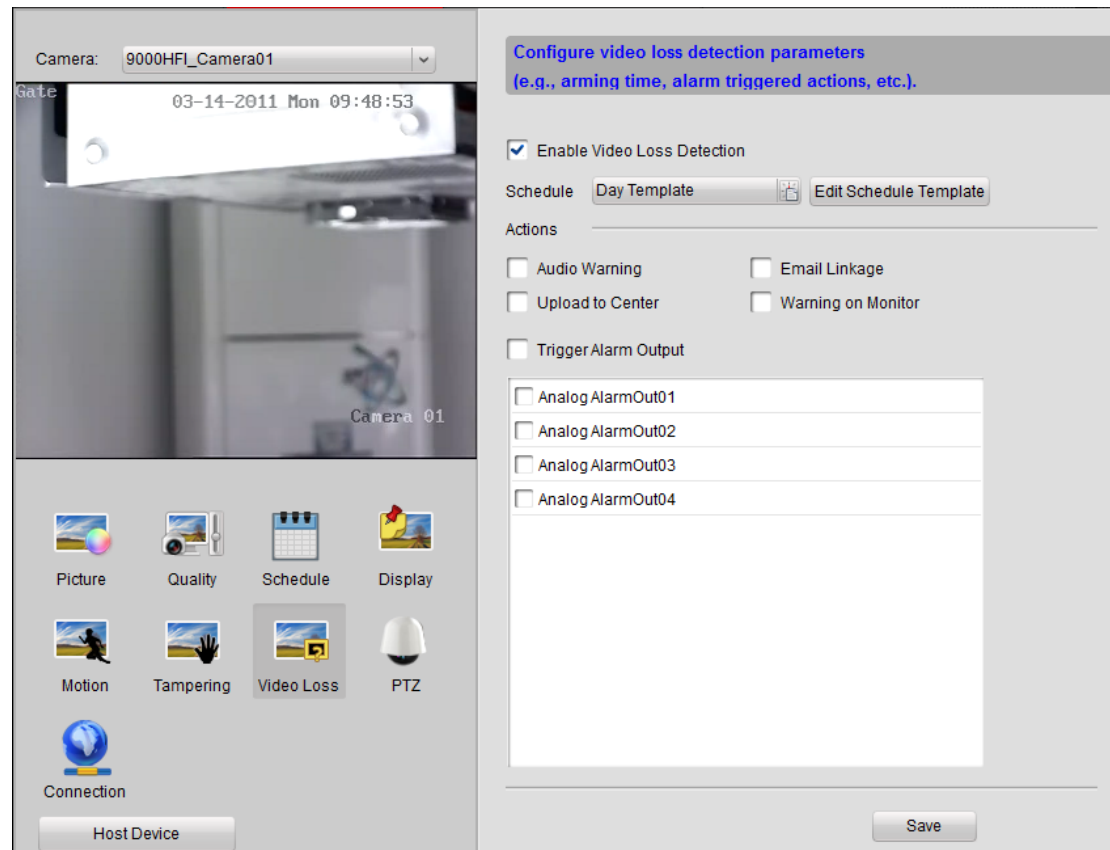
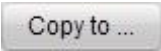



Figure 9.13 Video Loss Detection

### 9.1.8 PTZ

In the PTZ configuration page, users can specify the PTZ connection parameters, such as baud rate, data bits, stop bits, parity, flow control, PTZ protocol and PTZ address (Figure 9.14). Please notice that all these PTZ parameters should be consistent with the local settings on the PTZ to ensure valid PTZ control.

Click  to copy all the PTZ settings to another camera. After all the PTZ settings are done, click  to save the changes.

The screenshot shows a configuration window titled "Configure PTZ parameters (e.g., baud rate, protocol, PTZ address, etc.)". It contains several dropdown menus and a text input field. The settings are as follows:

Parameter	Value
Bits per Second	9600
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	None
Protocol	HIKVISION
PTZ address	0

Buttons include "Copy to ...", "Test", and "Save".

Figure 9.14 PTZ

### 9.1.9 Connection

In the Connection configuration page, users can specify the protocol and stream type of the camera, and configure stream media server (Figure 9.15).

If **Use Stream Media Server** is enabled, please click **Stream Media Servers**, click **Add** in the popup dialog box and input the stream media server information to assign a stream media server for the stream.

Click **Copy to ...** to copy all the Connection settings to another stream. After all the Connection settings are done, click **Save** to save the changes.

The screenshot shows a configuration window titled "Configure connection parameters (e.g., protocol, stream type, enable/disable stream media server, etc.)". It contains several dropdown menus, a checkbox, and a text input field. The settings are as follows:

Parameter	Value
Protocol	TCP
Camera Type	Main Stream
Use Stream Media Server	<input checked="" type="checkbox"/>
Stream Media Server	

Buttons include "Copy to ...", "Stream Media Servers", and "Save".

Figure 9.15 Connection

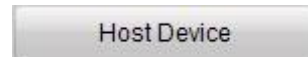
## 9.2 Device Configuration



Click on the "Device Management" icon in the control panel, select



the device, and click the device configuration interface (Figure 9.16). User can also enter device configuration interface via



button in the Camera Configuration interface, or via the



button in the "Device Management" under Camera Import interface.

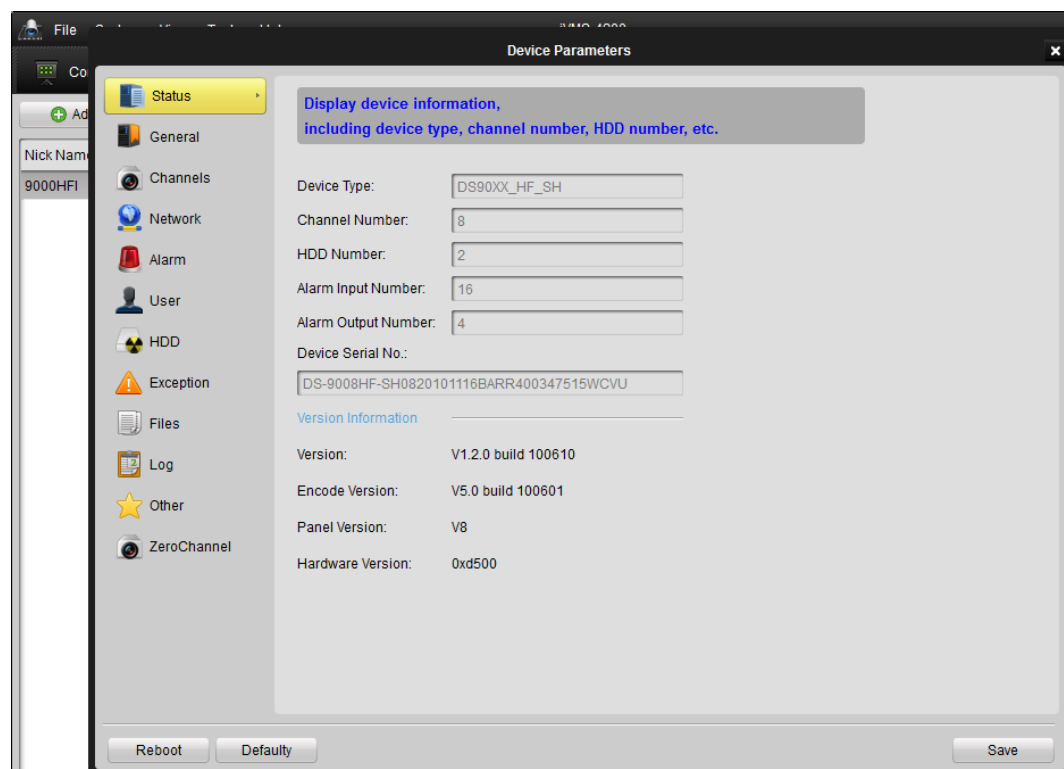


Figure 9.16 Device Configuration- Status

### 9.2.1 Status

In this status page (Figure 9.16), users can check the basic information of the device, including device type, total channel number, HDD number, physical Alarm I/O number, device SN, and also version information. For the version information, **Version** indicates firmware version, **Encode Version** indicates the encoder's version, **Panel Version** indicates the front panel version of the device, and **Hardware Version** indicates the hardware version of the device.



## 9.2.2 General

In the general configuration page (Figure 9.17), users can configure some general properties of the device.

**Device Name:** user can define the name of the device, which will be displayed on the device list of the software.

**Device No.:** device number for the remote controller.

**Record Replace:** overwrite HDDs when HDDs are full.

**Main BNC Scale:** scale image display on the main BNC output.

**Spot BNC Scale:** scale image display on the spot BNC output.

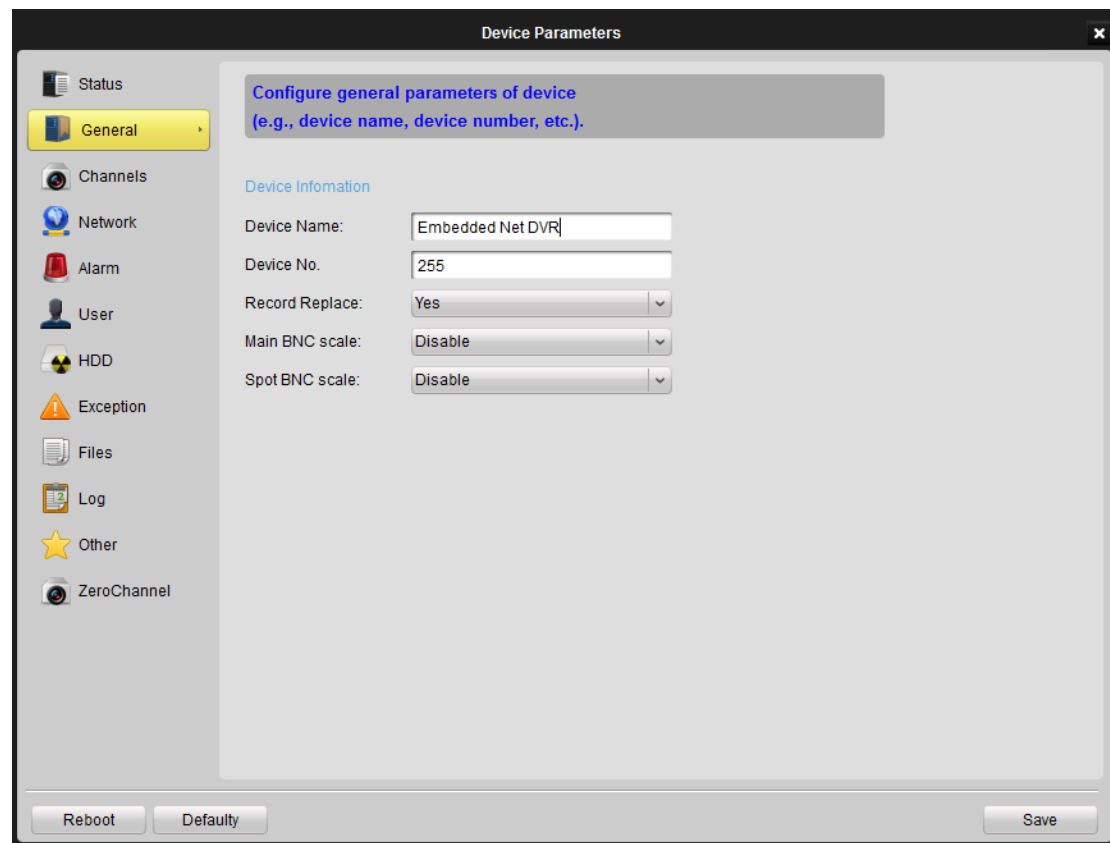


Figure 9.17 Device Configuration-General

## 9.2.3 Channels

In the channels configuration page (Figure 9.18), users can enable/disable analog channels of the device if available. And for the hybrid DVR or NVR which has IP channels, users can add, delete and modify an IP channel by clicking relative buttons on the configuration page, and fill in the IP channel information accordingly.

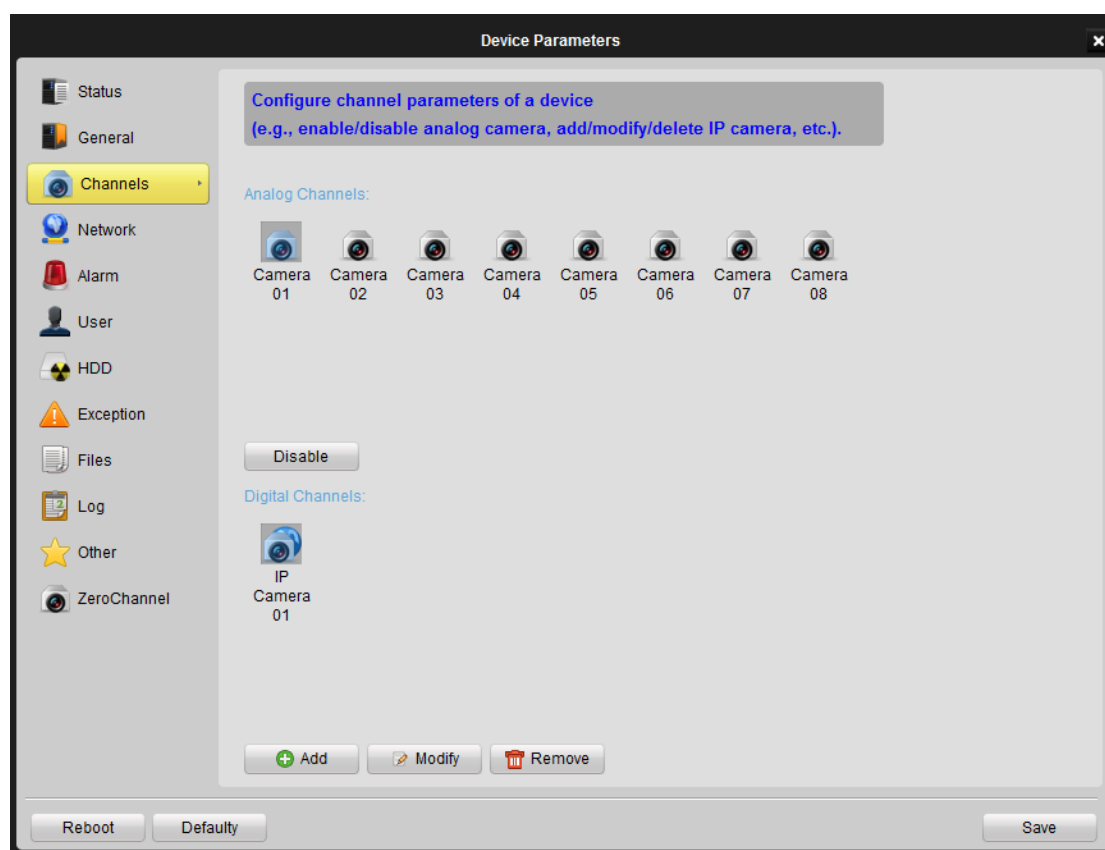


Figure 9.18 Device Configuration-Channels

## 9.2.4 Network

In the network configuration page (Figure 9.19), users can configure network parameters for the device.

**NIC Type:** NIC type of the device.

**Device IP Address:** IP address of the device.

**Device Port:** network port of the device, the default port number is 8000.

**Subnet Mask:** sub net mask IP for the device.

**Default Gateway:** default gateway IP for the device.

**Mac:** Mac address of the device, this is a read-only field.

**Multicast:** multicast address of the device, please leave this field empty if multicast is not required.

**http Port:** Web service port of the device, the default port number is 80.

**NTP:** NTP time synchronization. Click the **Settings** button to configure NTP server and the time zone.

**Email:** Email account settings for the device. Click the **Settings** button to configure SMTP server parameters.

**PPPoE:** click the **Settings** button to configure PPPoE parameters.

**DDNS:** click the **Settings** button to configure DDNS parameters.

**Advance:** click the **Settings** button to configure DNS Server Address, Alarm Host IP and Alarm Host Port.

**Wifi:** click the **Settings** button to configure the Wifi parameters if the device supports this function.

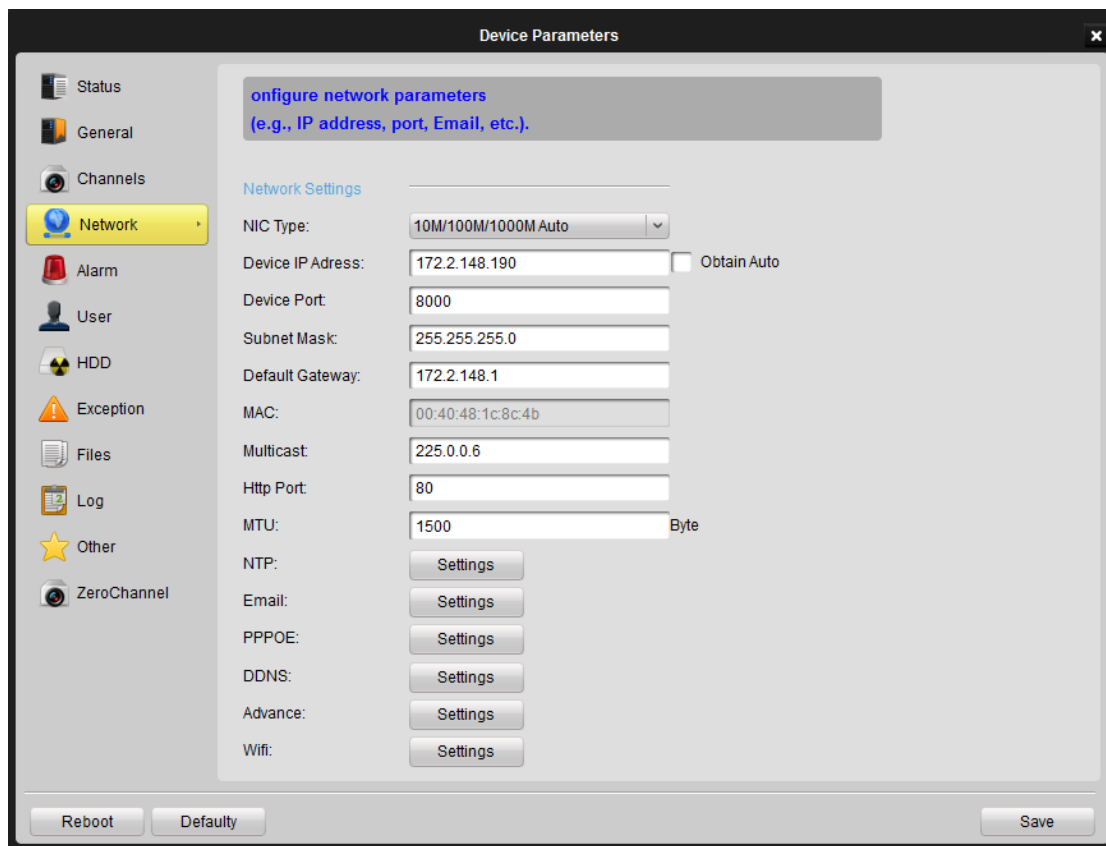


Figure 9.19 Device Configuration- Network

## 9.2.5 Alarm

In the alarm configuration page (Figure 9.20), users can configure Alarm I/O and linkage actions for the device.

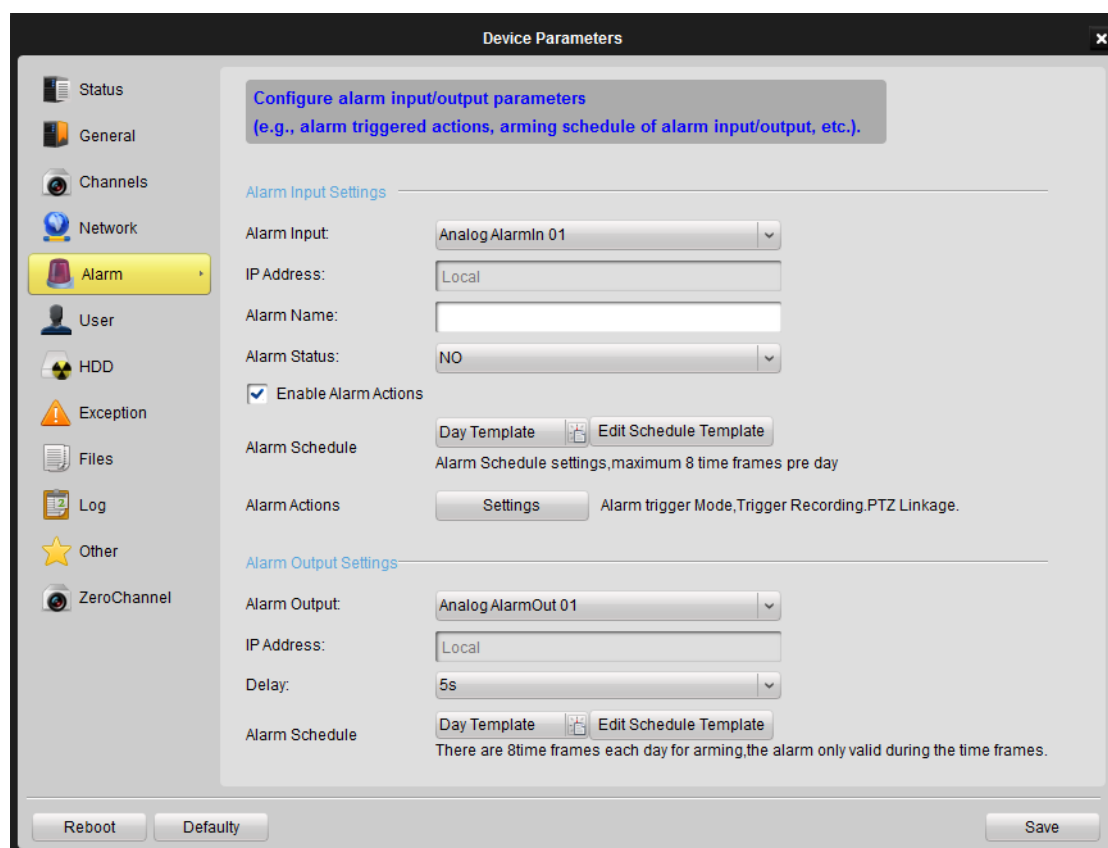


Figure 9.20 Device Configuration– Alarm

**Alarm input settings:**

**Alarm Input:** select an alarm input channel for configuration.

**IP Address:** IP address for the digital alarm input. "Local" stands for the hard-wired alarm input interface on the device. This is a read-only field.

**Alarm Name:** define a name for the alarm input channel.

**Alarm Status:** NO stands for normally open and NC stands for normally closed.

Users should check **Enable Alarm Action** to activate alarm action settings.

**Alarm Schedule:** set the time schedule to handle the alarm triggering, which is also called "Arm schedule". The schedule template is configured in "Schedule" settings page of camera configuration. Please refer to Section 9.1.3 for detail description of operation steps.

**Alarm Actions:** click **Settings** to enter alarm action settings (Figure 9.21). Check the alarm action(s) which are required to be activated after the alarm input has been triggered, and select corresponding channel number if required.

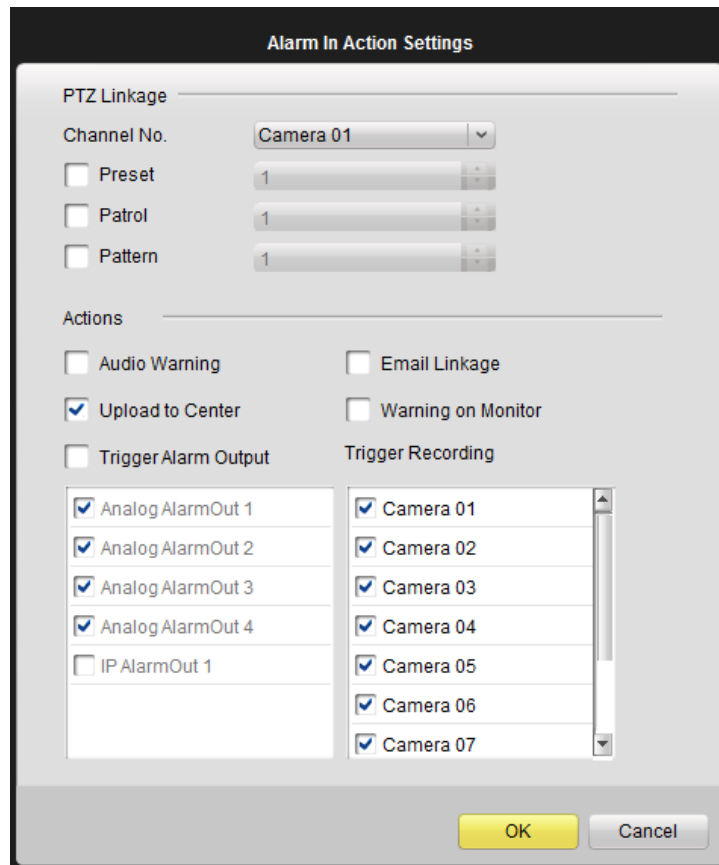


Figure 9.21 Alarm Actions

**Alarm output settings:**

**Alarm Output:** select an alarm output channel for configuration.

**IP Address:** IP address for the digital alarm output. "Local" stands for the hard-wired alarm output interface on the device. This is a read-only field.

**Delay:** select the delayed time duration for the alarm output.

**Alarm Schedule:** set the time schedule to activate the alarm output, which is also called "Arm schedule". The schedule template is configured in "Schedule" settings page of camera configuration. Please refer to Section 9.1.3 for detail description of operation steps.

**9.2.6 User**

In the user configuration page (Figure 9.22), authorized users can create users accounts and assign different privileges for each account.

Click "Add", "Modify" or "Remove" to create/edit/delete a user account. The created user account(s) with basic information will be listed in the area below.

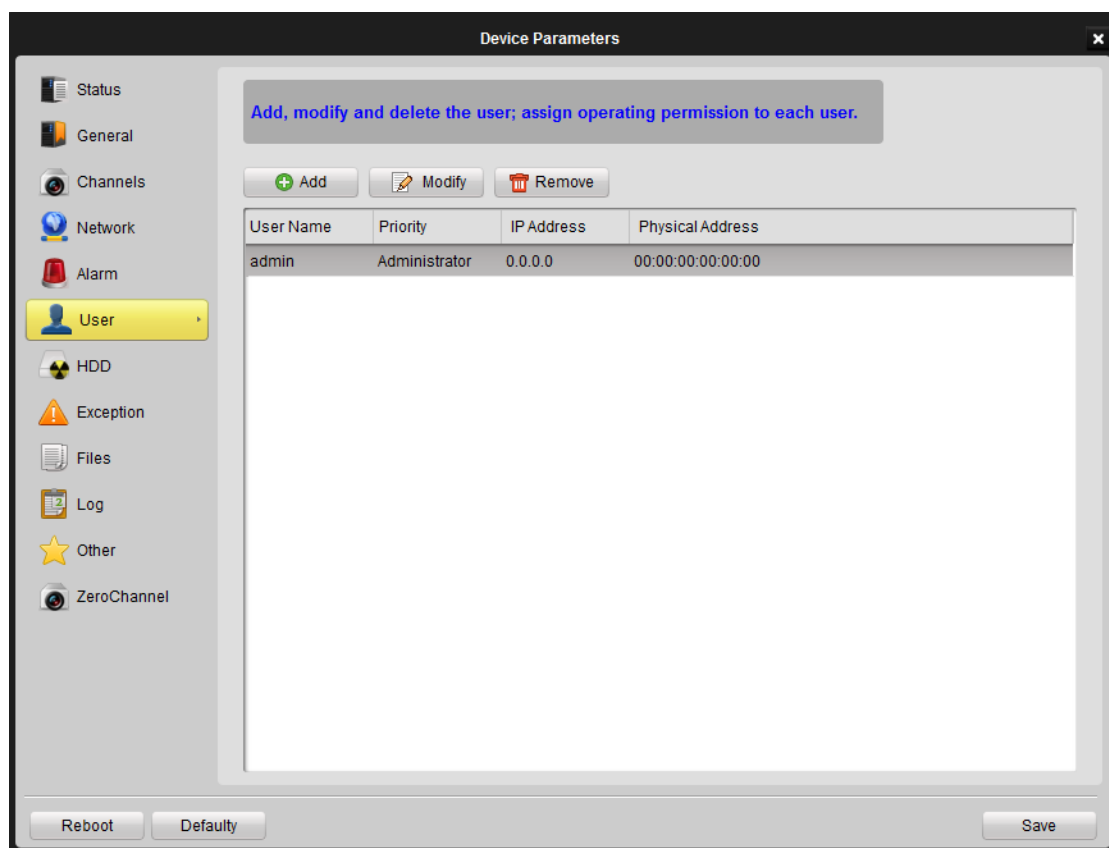
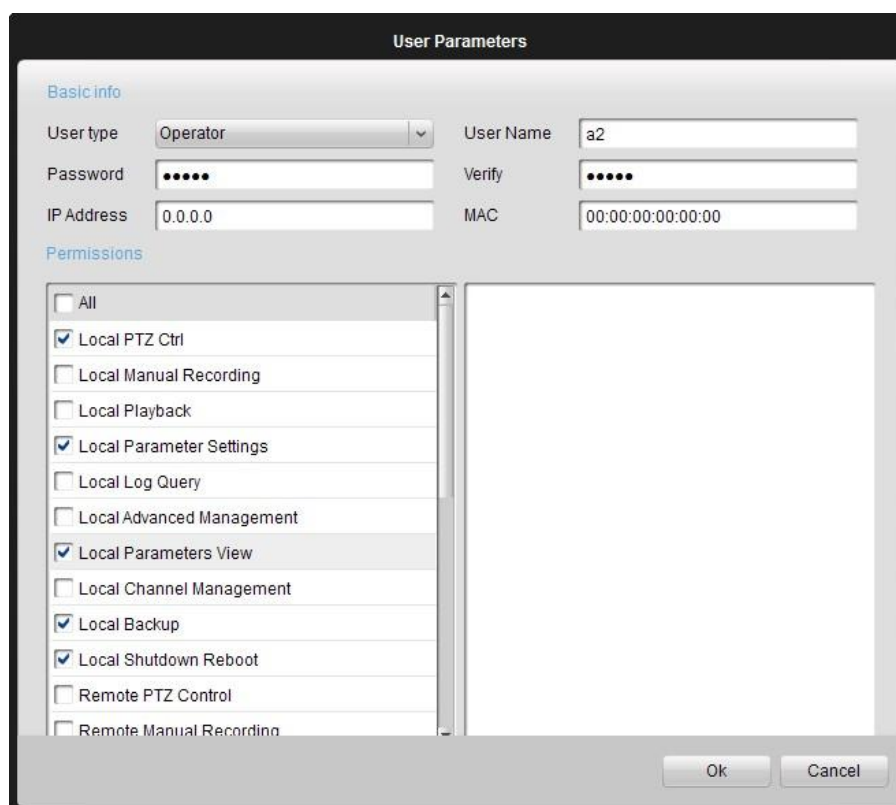


Figure 9.22 Device Configuration- User

When adding or editing a user account, user can set different permissions in the "User Parameters" dialog box (Figure 9.23). Select user permissions that required for the created user account, and then click **OK** to confirm the configuration.



The image shows a 'User Parameters' configuration window. It is divided into two main sections: 'Basic info' and 'Permissions'. The 'Basic info' section contains fields for 'User type' (set to 'Operator'), 'User Name' (set to 'a2'), 'Password' (masked with dots), 'Verify' (masked with dots), 'IP Address' (set to '0.0.0.0'), and 'MAC' (set to '00:00:00:00:00:00'). The 'Permissions' section features a list of checkboxes for various functions. The 'All' checkbox is unchecked. The following permissions are checked: 'Local PTZ Ctrl', 'Local Parameter Settings', 'Local Parameters View', 'Local Backup', and 'Local Shutdown Reboot'. The following permissions are unchecked: 'Local Manual Recording', 'Local Playback', 'Local Log Query', 'Local Advanced Management', 'Local Channel Management', 'Remote PTZ Control', and 'Remote Manual Recording'. At the bottom right of the window are 'Ok' and 'Cancel' buttons.

Basic info	
User type	Operator
User Name	a2
Password	.....
Verify	.....
IP Address	0.0.0.0
MAC	00:00:00:00:00:00

Permissions	
<input type="checkbox"/> All	
<input checked="" type="checkbox"/> Local PTZ Ctrl	
<input type="checkbox"/> Local Manual Recording	
<input type="checkbox"/> Local Playback	
<input checked="" type="checkbox"/> Local Parameter Settings	
<input type="checkbox"/> Local Log Query	
<input type="checkbox"/> Local Advanced Management	
<input checked="" type="checkbox"/> Local Parameters View	
<input type="checkbox"/> Local Channel Management	
<input checked="" type="checkbox"/> Local Backup	
<input checked="" type="checkbox"/> Local Shutdown Reboot	
<input type="checkbox"/> Remote PTZ Control	
<input type="checkbox"/> Remote Manual Recording	

Figure 9.23 User Configuration

### 9.2.7 HDD

In the HDD configuration page (Figure 9.24), all the HDD installed on the device will be listed with basic information, and users can configure HDD groups via **HDD Group Attribute**, or format the HDD via **Format** button on the HDD configuration interface.

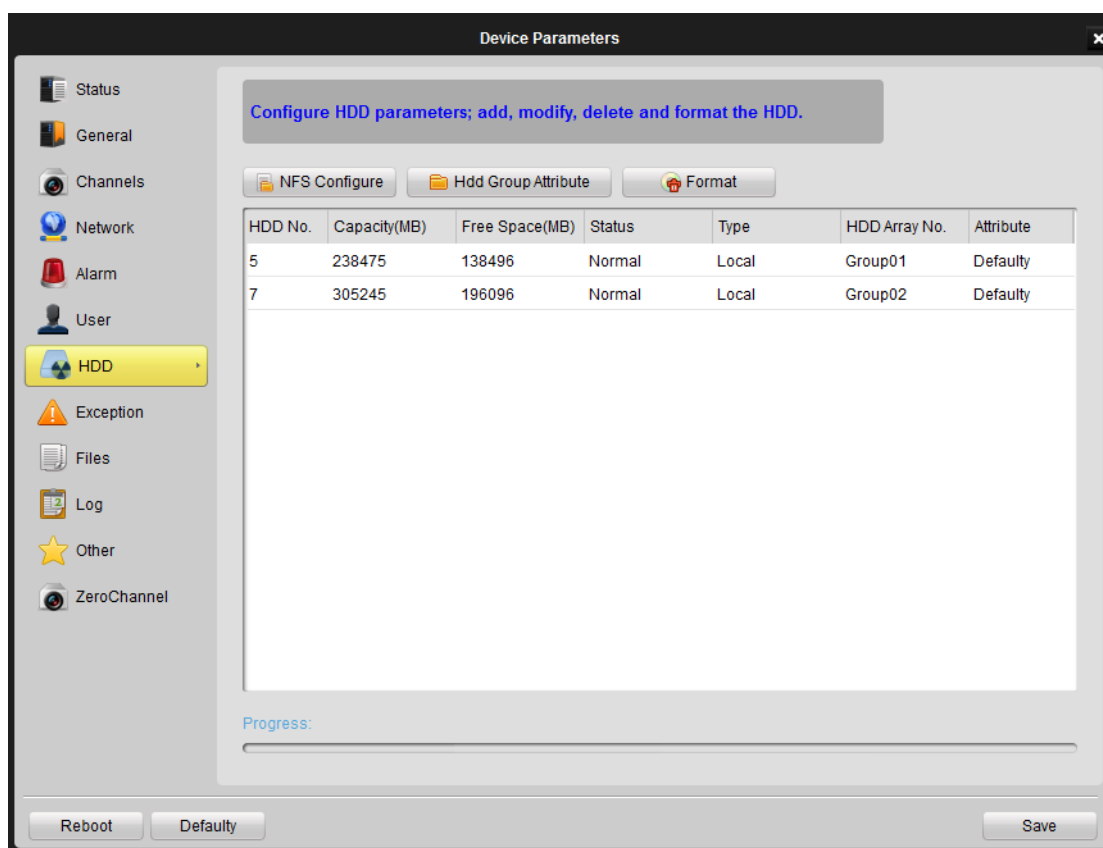


Figure 9.24 Device Configuration- HDD

### 9.2.8 Exception

In the exception configuration page (Figure 9.25), select the exception type, and check the linkage actions accordingly under "Alarm Handle Method" (also select the channel number in "Alarm Output" if "Trigger alarm output" is enabled). Different linkage actions can be configured for different exception type.



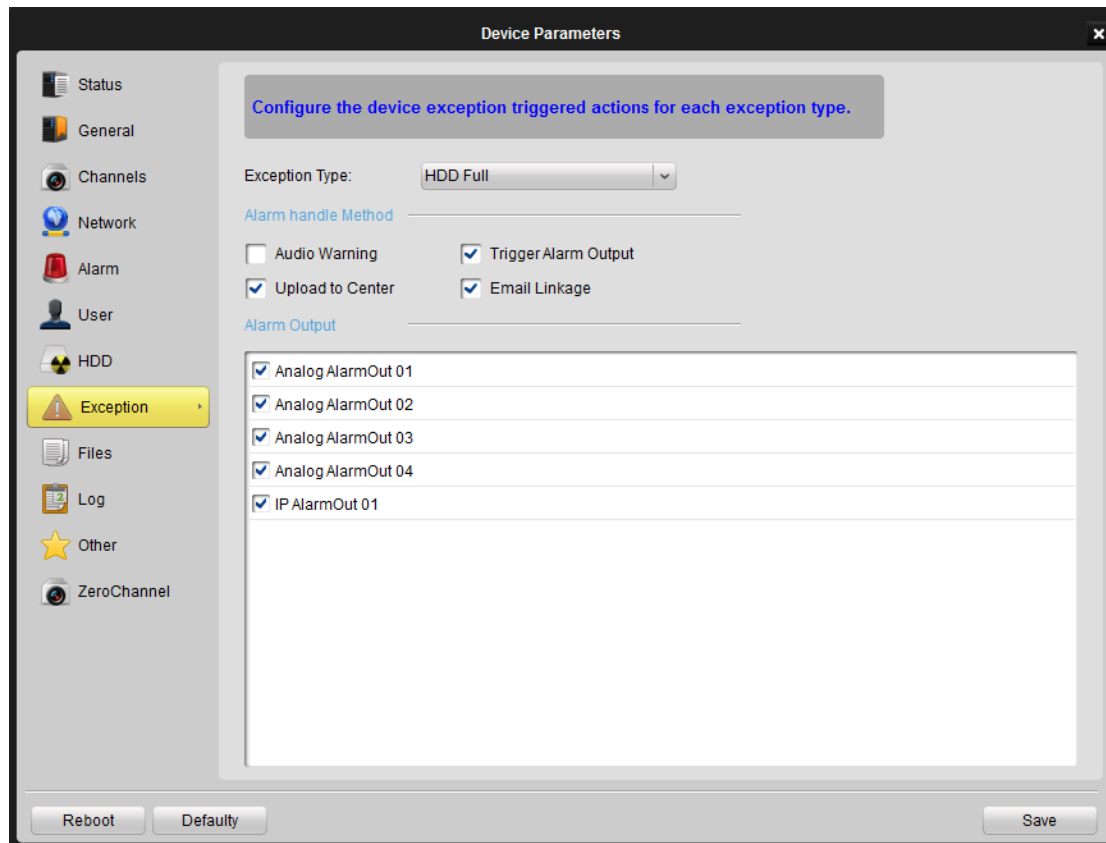


Figure 9.25 Device Configuration- Exception

### 9.2.9 Files

Recording files query on the local device (Figure 9.26). Select the **Channel Number**, select different file attribute (i.e. All, motion, alarm, etc), define the start and end time of the record log files, and then click **Search**. The matched record files will be listed accordingly.

If the device supports remote backup function, user can also select files and click **Backup** to back up all the selected record files.

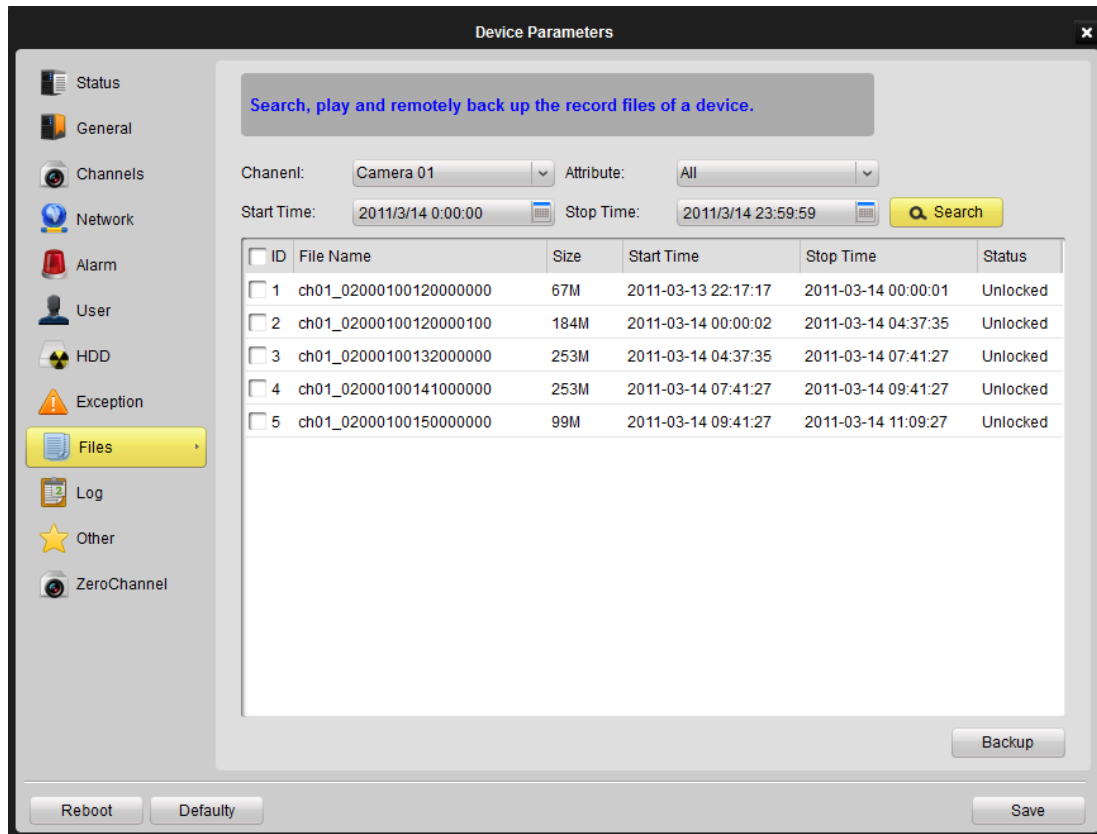


Figure 9.26 Device Configuration-Files

### 9.2.10 Log

Log file query on the local device (Figure 9.27). Select the **Query Mode**, select different main type and sub type of the log file, define the start and end time of the log files, and then click **Search**. The log file will be listed accordingly.

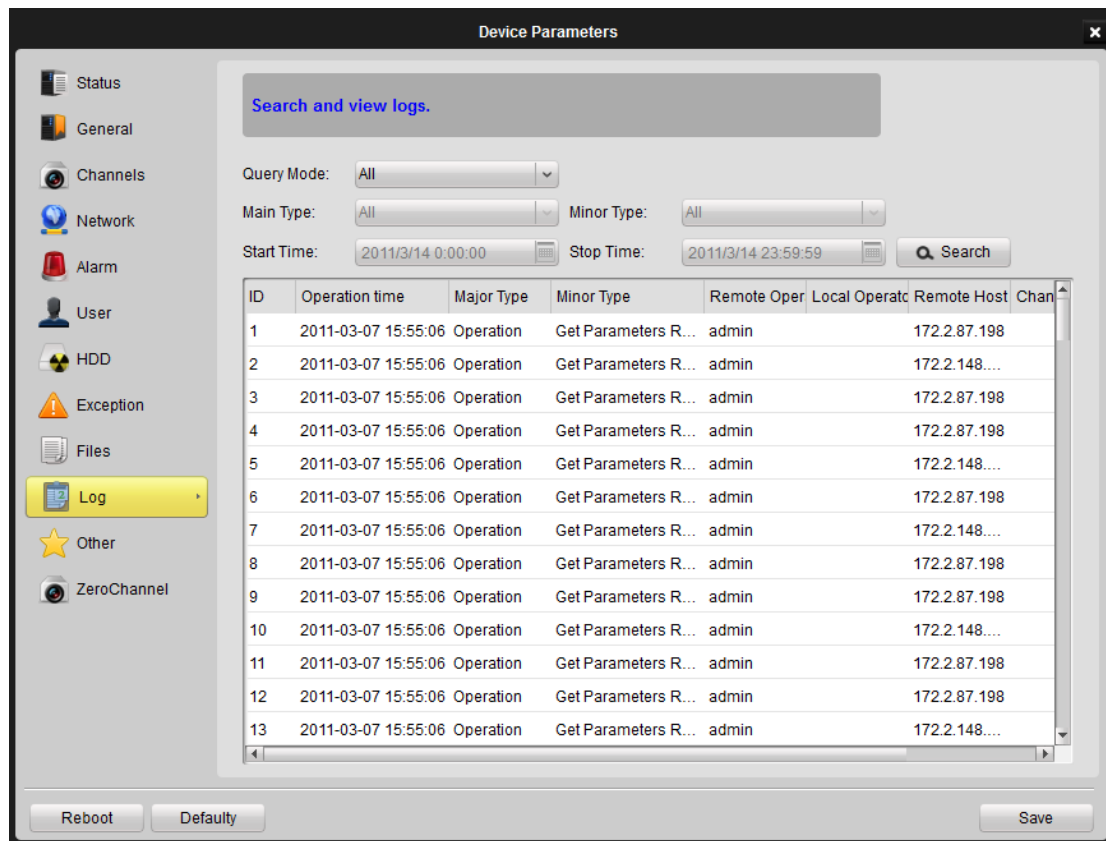


Figure 9.27 Device Configuration- Log

### 9.2.11 Other

Serial port configuration and remote upgrade settings on the local device (Figure 9.28). Please notice that the baud rate, data bits, stop bits, parity, flow control and work mode should be consistent with the protocol settings on the device which is connected to the serial port.

For the remote upgrading function, click [...] to browse and select the upgrade file, and then click **Upgrade** to start upgrading. The upgrading process will be displayed and reboot is required when the upgrading process is finished.

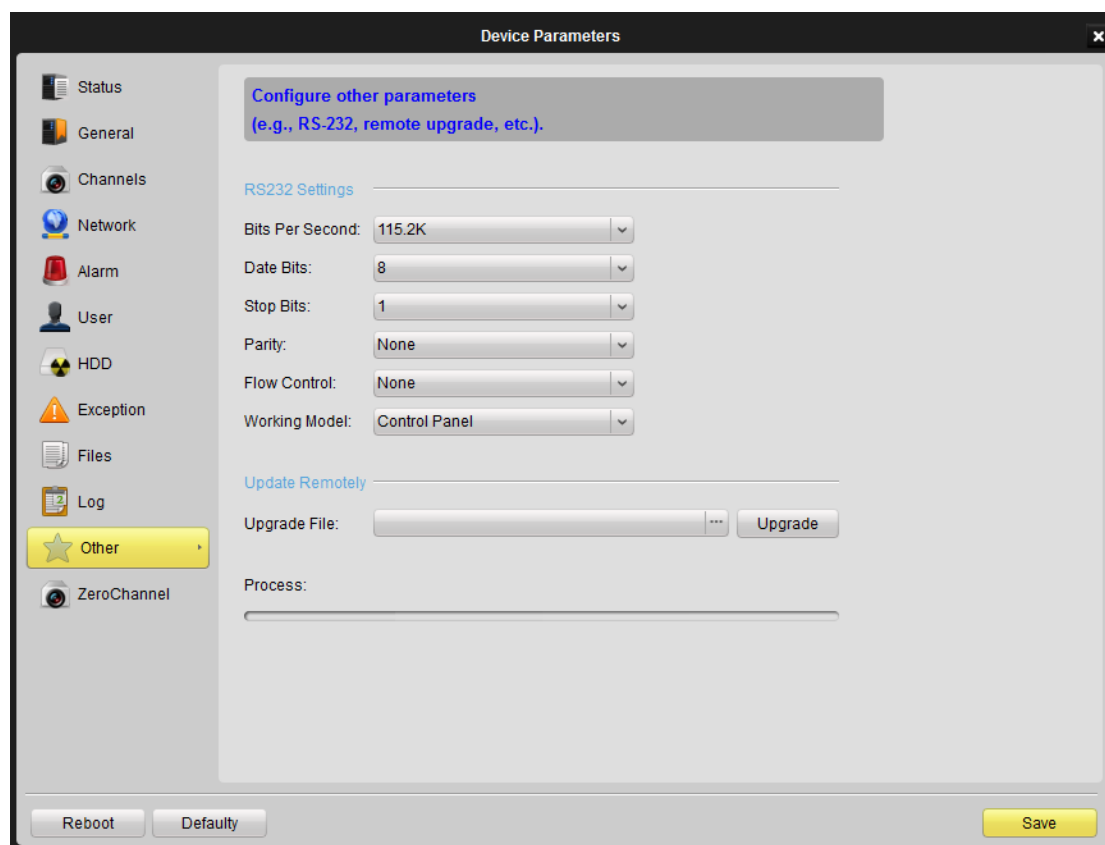


Figure 9.28 Device Configuration- Other

### 9.2.12 Zero Channel

Sometimes the user needs to remote view a lot of cameras simultaneously from web browser or client software, in order to decrease the bandwidth requirement in case that the image quality is not strictly required, zero channel encoding feature is supported as an option for users.

Zero-channel is specially used for encoding the spot output port. User could set the spot output (zero-channel) encoding parameters, window divisions and the cycle mode. By this function, user could preview the video of the spot output, and it could save the bandwidth for user.

**Note:** This function is supported by the DS-9000 / 9100 series DVR with the version 1.2 or higher and DS-9600 series NVR only.

If the device supports zero-channel and the channel number is set to be more than the analog channel number, the last channel of the device will be zero-channel. The priority of the zero-channel is higher than IP camera channel. If you want to use the IP channel of the DVR, you need to set the channel number to be more than the summation of the analog and IP channel number, and zero-channel need this one channel to display.

If the device supports Zero Channel function, user can enter the settings interface to configure the zero channel settings, e.g., enable/disable zero-channel coding, Max.

bitrate, frame rate, split screen mode, dwell time, and camera order.

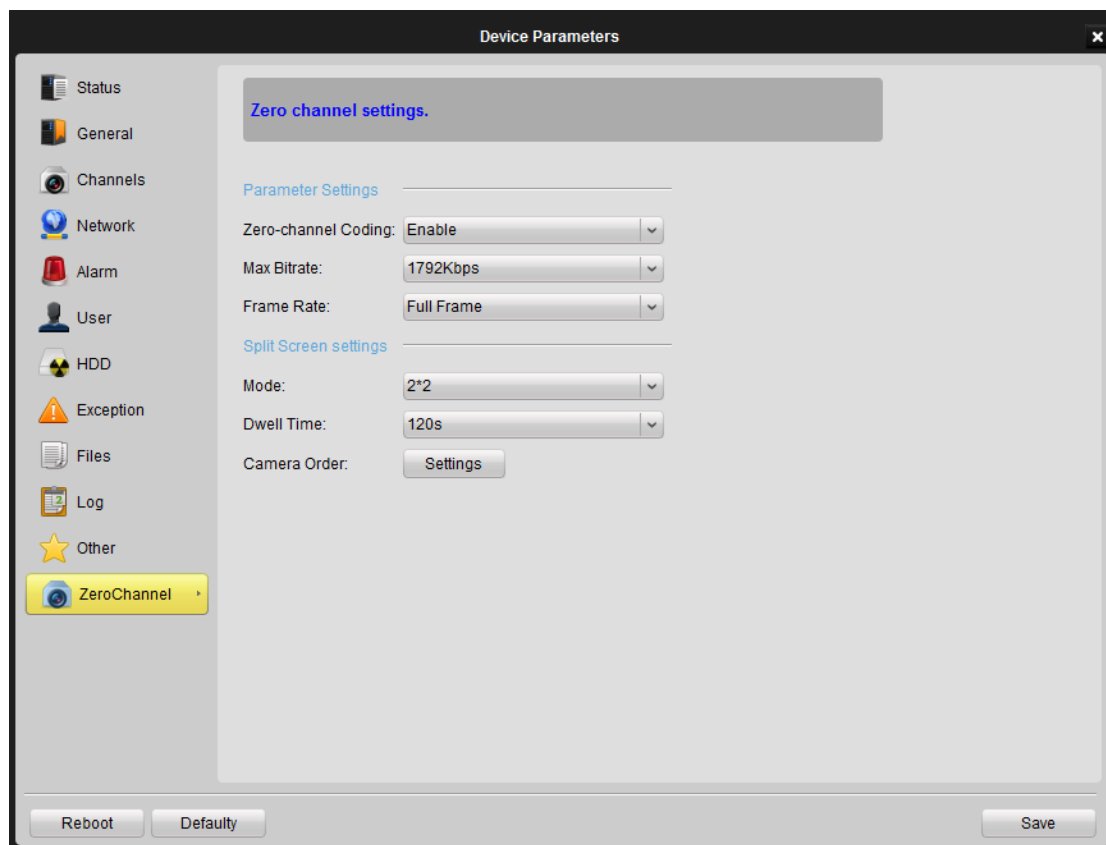


Figure 9.29 Device Configuration- Zero Channel

The camera order used for split screen display mode can be configured by clicking **Settings** to enter the Channel Sequence Settings interface. Select the split mode and then adjust the camera order as required. Refer to Figure 9.30.

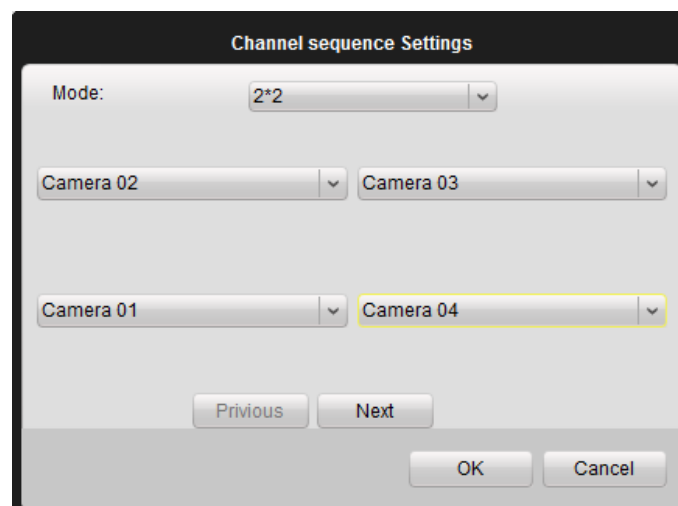



Figure 9.30 Zero Channel- Camera Order Settings

## Chapter10. E-Map



Click View->Emap View on the menu bar or click  on the main interface to enter the main interface of Emap. Refer to the following figure:

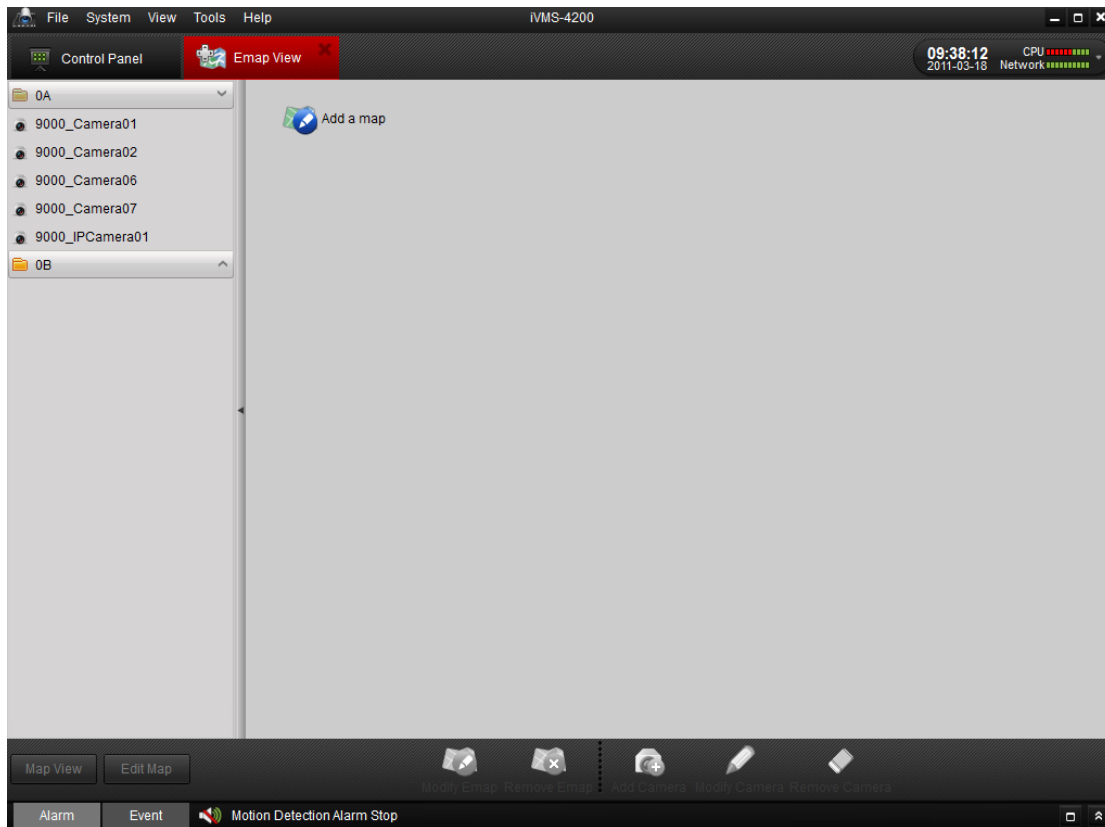



Figure 10.1 Emap

## 10.1 Add Emap

For the first time to use Emap, user is required to add a map first. Click  to add a new map.

**Note:** One group can be added with one map only.

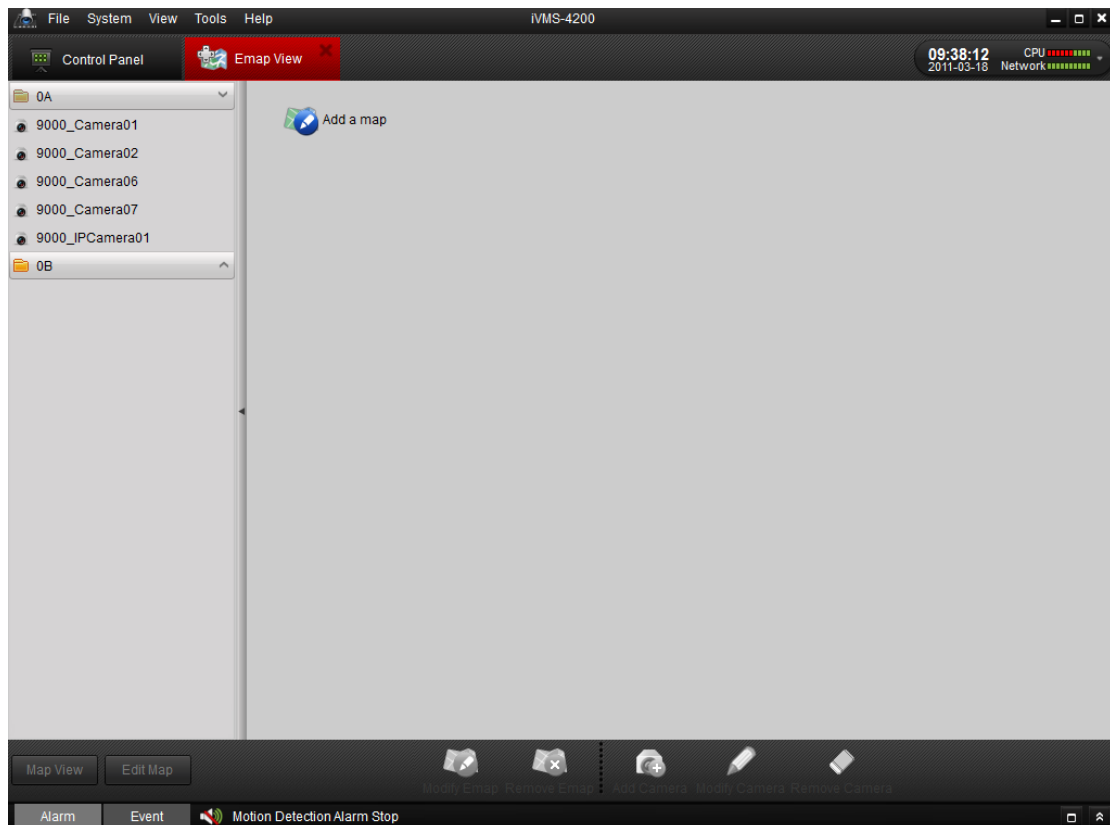


Figure 10.2 Add Emap

Enter in name of Map, and select it from your local PC.

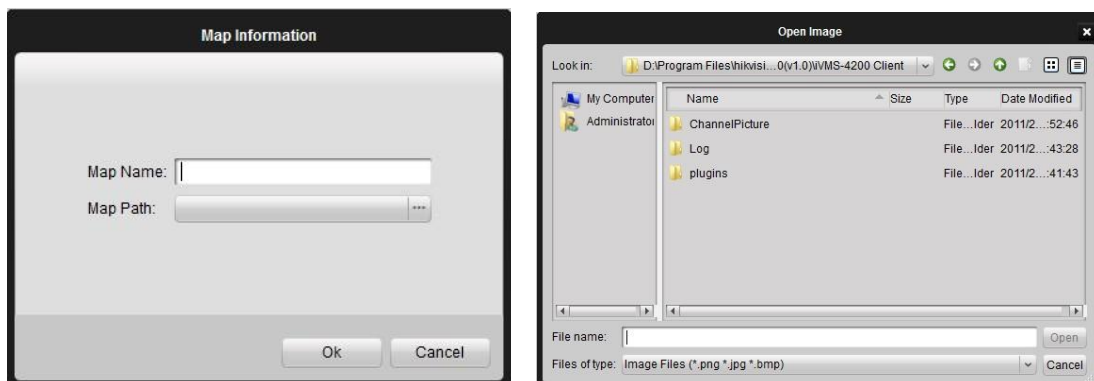


Figure 10.3 Enter Emap Information

**Note:** Map format should be \*.png, \*.jpg or \*.bmp.

After add map successfully, it will show on the window and name of map also appears on the list of group.

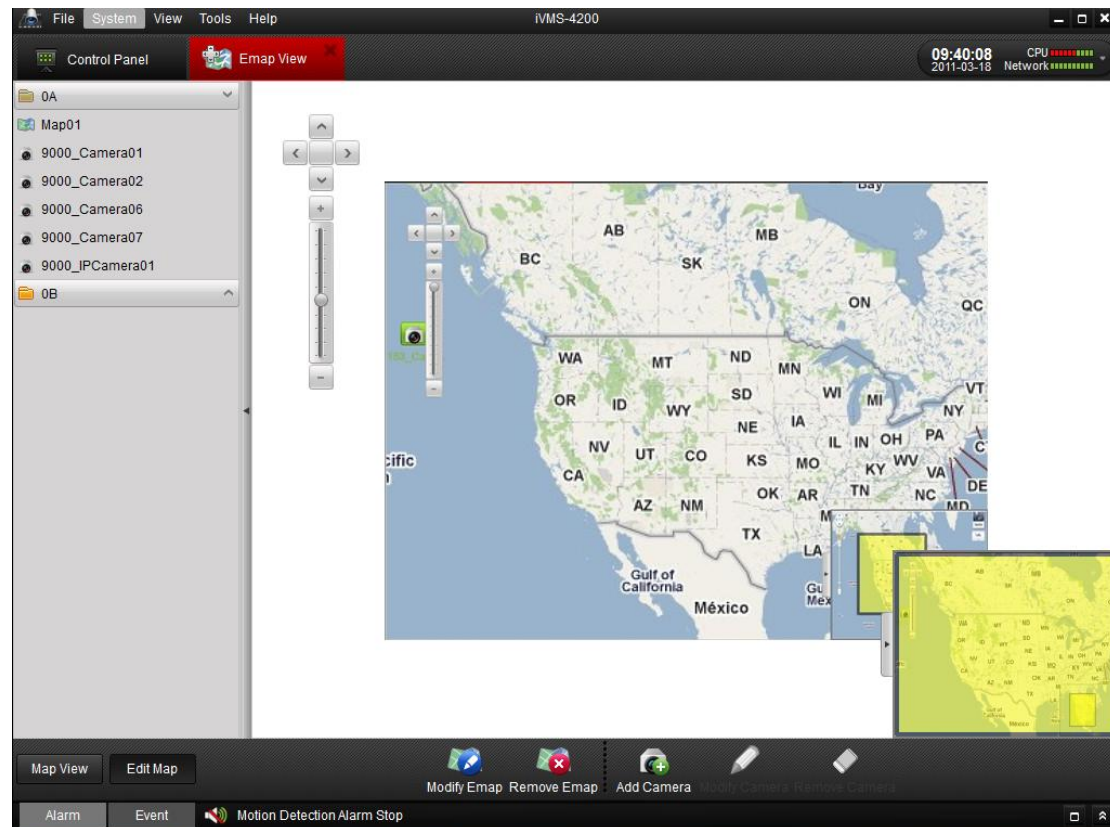

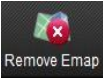

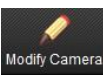

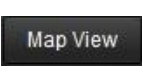
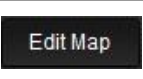
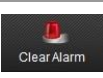


Figure 10.4 Added Emap


Toolbar buttons description:

Button	Description
 Modify Emap	Modify map, change map name or path.
 Remove Emap	Remove map.
 Add Camera	Make camera show on the map
 Modify Camera	Modify hotspot name and select which camera to show the map.
 Remove Camera	Remove selected camera from map.
 Map View	E-Map is under view state
 Edit Map	E-Map is under edit state
 Clear Alarm	Clear alarm display on E-Map manually.



## 10.2 Edit Emap



If Emap is in “Edit” status, click  or double click the map name on the left side of the software interface to get map editing window. Users can modify map name and change another map here.

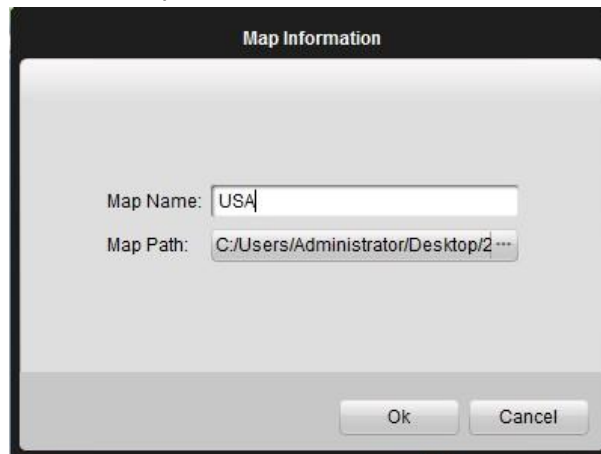
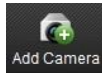
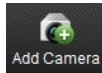



Figure 10.5 Edit E-map Information

It is available to show the location of cameras on the map. There are two ways to do

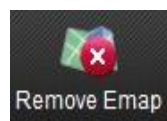


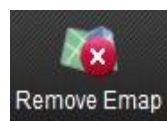
that, click  and select which camera you want to add, and then move it to the right position. User may also just drag camera from the list to the right position.



If there is alarm triggered, icon  will appear near the camera icon to notify the users.

## 10.3 Delete Emap



User can click  to delete the added Emap.

## Chapter 11. Hardware Decoding


iVMS-4200 client software allows the access of the DS-6000DI, DS-6300DI and DS-6401HDI Series Decoder for decoding and outputting the network video signal from DVR, DVS, network Camera, network speed dome and encoder card as well as display of the video on TV wall.

### 11.1 Add Hardware Decoder

Before controlling the decoder, user needs to add the decoder.

Users are able to add a new decoder in both "Decoder Server" and "TVwall View" interface.



Click  to enter decoder server interface.

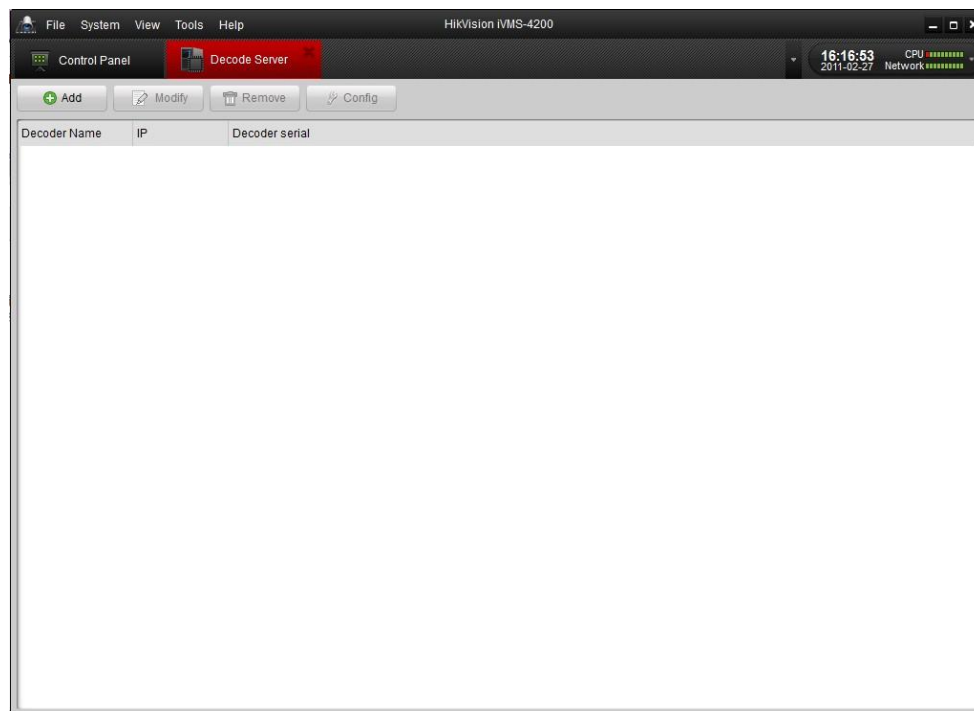


Figure 11.1 Decoder Server Interface



User may also click  to enter TVwall View interface.

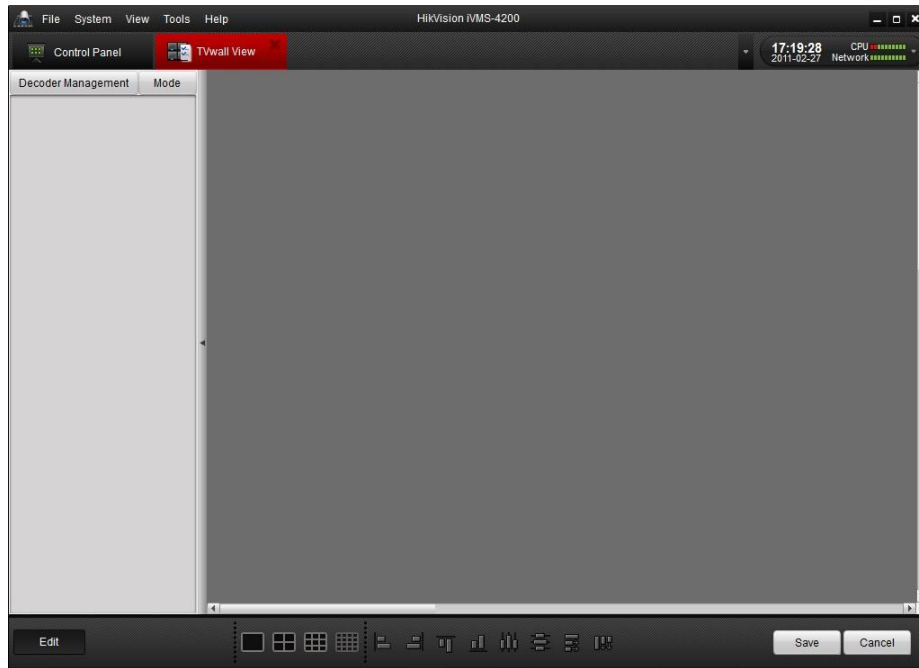


Figure 11.2 TV Wall Interface

Click **Decoder Management** to enter devices management interface, more details refer to Chapter 9, device management.

Then Click **+ Add** to add decoder. Following dialog box pop up.

Figure 11.3 Add Decoder Information

User can enter in IP address if you know or click **Online Devices** to detect devices in the same LAN. More details refer to Chapter 9, device management.

## 11.2 Edit TV Wall

After the decoder has been added successfully, the device name will be displayed in the device list on the left.

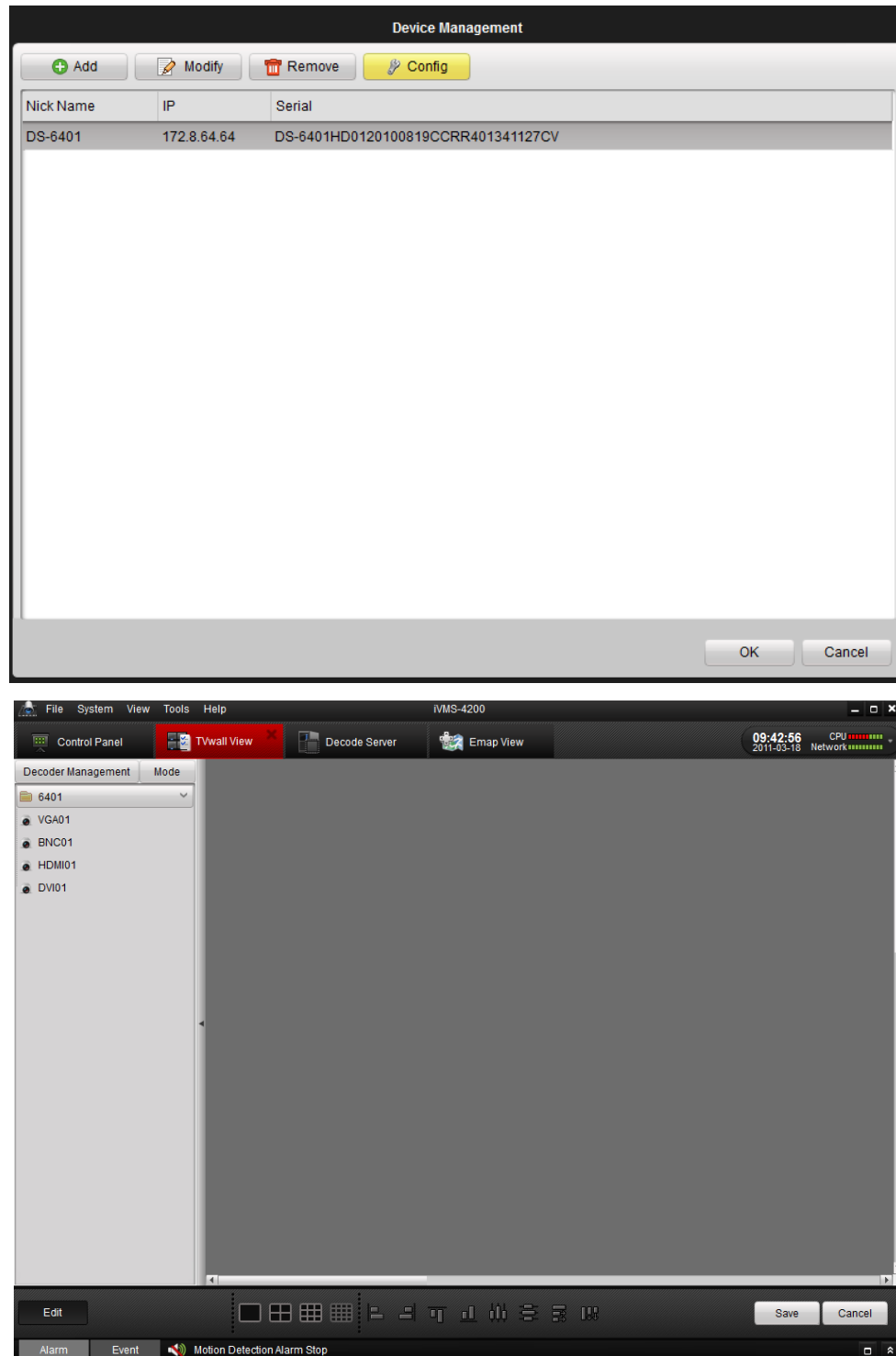
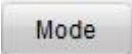


Figure 11.4 Edit TV Wall

Click  to select video wall mode.

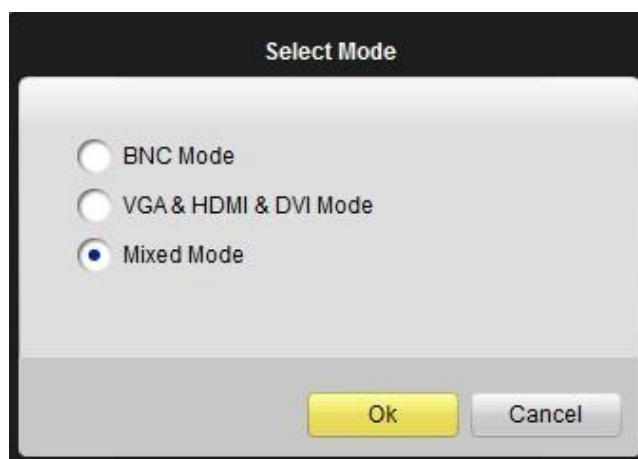


Figure 11.4 Select Video Wall Model

**Note:** There are 3 modes selectable: BNC mode, VGA & HDMI & DVI mode and mixed mode, and users can choose which output they want to use.

Drag one or more output (VGA or BNC) from the output list (Area 1) to the blank area (Area 2).

After the decoder has been added successfully, the decoder channels will be displayed in the decoder list (Area 1). If the decoder supports VGA, it will display the VGA output. The DS-6300DI decoder supports simultaneous BNC and VGA outputs, and DS-6401HDI provides BNC, VGA, HDMI and DVI output.

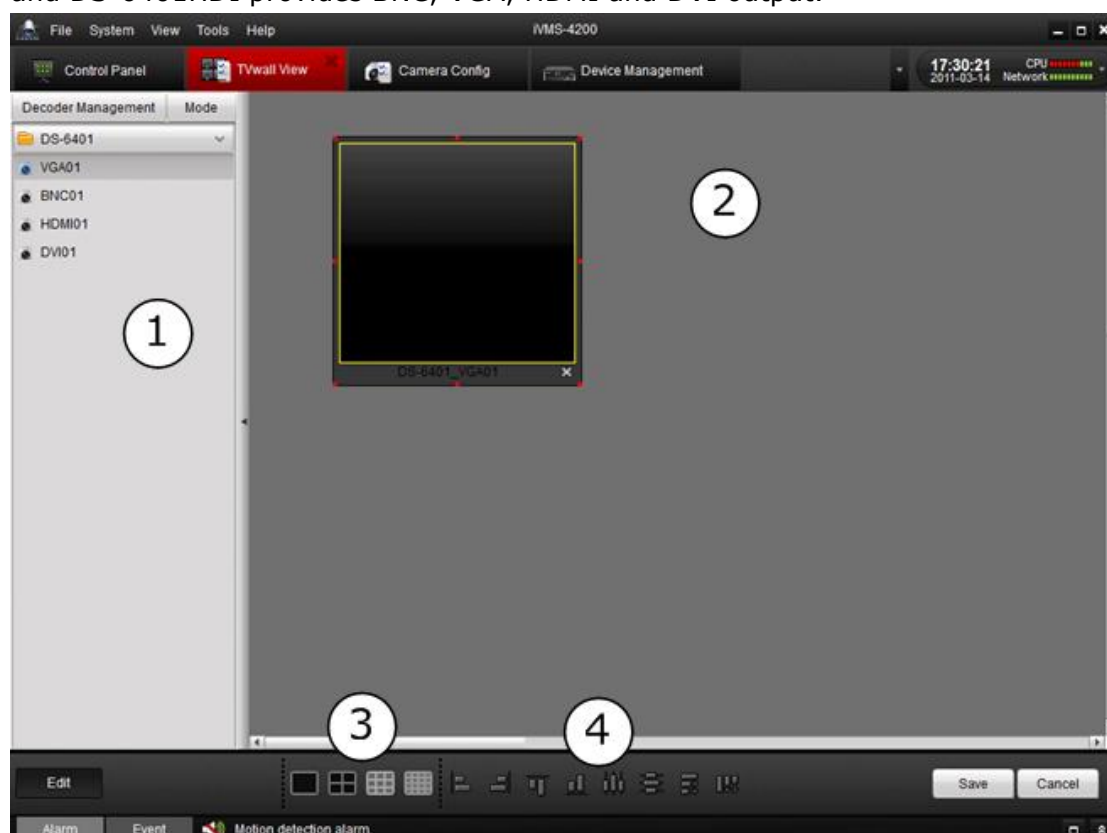


Figure 11.5 TV Wall Configuration









System Panel:

Area	Description
①	List of decode output channels
②	Decode channel display
③,④	Toolbar

Users can select 1/4/9/16 window-division display mode by



Decoder layout toolbar:



Button	Description	Button	Description
	Left align		Right align
	Top align		Bottom align
	Center vertically		Center horizontally
	Equal horizontal distance		Equal vertical distance

**Note:** The decoding resource of DS-6000DI, DS-6300DI, DS-6101DI and DS-6401HDI is shown as below:

Resolut ion/De coder Model	Decoding Channel Number							
	DS-6000DI			DS-6300DI			DS-6101 DI	DS-6400 HDI
	6001 DI	6004 DI	6008 DI	6301 DI	6304 DI	6308 DI	6101 DI	6401 HDI
CIF	1	4	8	4	8	16	4	4
4CIF	1	4	8	2	4	8	1	4
720P	N/A			1	2	4	N/A	2
1080P	N/A			N/A			N/A	1

## 11.3 Add Cameras into TV Wall

There are three modes to add cameras into TV wall: Preview, Alarm and Cycle decoding.

Click  or  to switch between Preview and Alarm mode.

If it is in Preview mode, drag channel from left list to window, then it start decoding and show on the video wall.

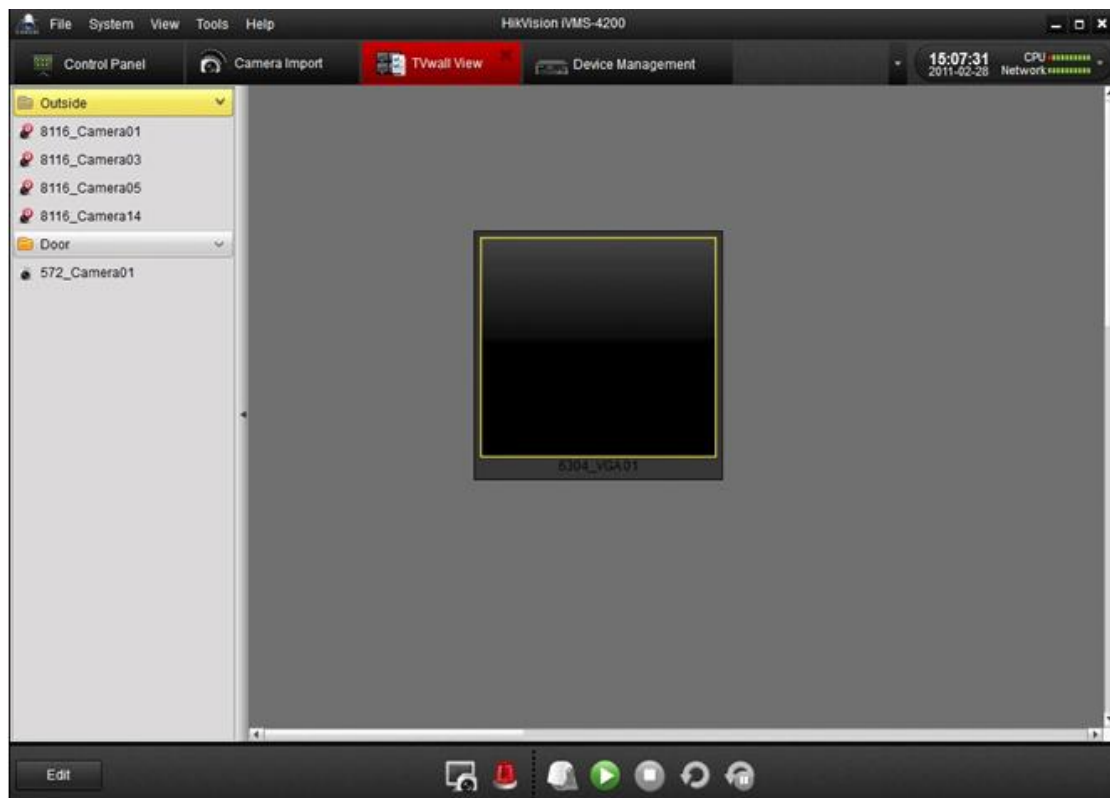


















Figure 11.6 TV Wall Configuration

If it is in Alarm mode, click  in "Alarm Events" to start decoding channel when alarm occurred.

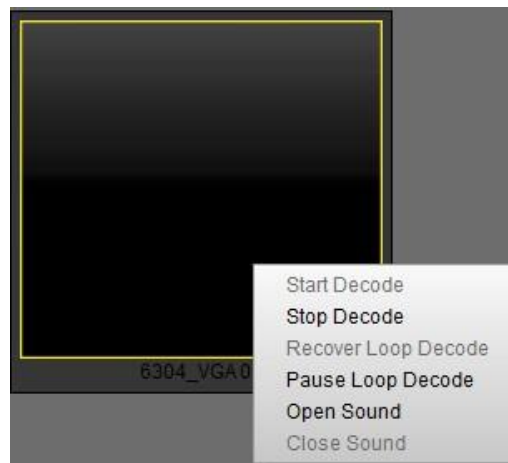
Alarm	Events					
Alarm Time	Alarm Source	Alarm Type		Play	Email	Show In TV Wall
2011-02-28 15:39:45	572 Camera01	Motion detection alarm.				
2011-02-28 15:37:50	572 Camera01	Motion detection alarm.				
2011-02-28 15:30:08	572 Camera01	Motion detection alarm.				
2011-02-28 14:51:41	572 Camera01	Motion detection alarm.				
2011-02-28 15:16:48	8116 Camera03	Video lost alarm.				








Drag the whole group into window and it start cycle decoding.

Pause / Recover cycle decoding

Right click window to pop up a dialog box and select Pause or Recover cycle decoding.

User may also directly click  /  on the bottom.



Buttons	Description
	Preview mode
	Alarm mode
	PTZ mode
	Start decoding
	Stop decoding
	Start cycle decoding
	Stop cycle decoding

Click  to save settings or  to cancel the saving of settings of current edit mode interface.

## 11.4 PC Decoder

PC decoder is a computer which is installed with decoder card. Firstly install the card drivers before using it.



Run "Decoder Server" to enter the following interface:

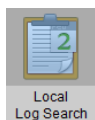


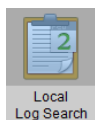

Figure 11.7 Run Decoder Server

After having installation, the computer can be used as a PC decoder. For instructions of using PC decoder, please refer to Chapter 11.1, 11.2 and 11.3.

## Chapter 12. Log

### 12.1 Log Query



Click  on the main interface to enter the Local Log Search interface. User is allowed to search logs by log type, user, group, user, camera or time. Select search criteria of log, and click  to start searching. The matched logs will be listed on the display pane. Refer to Figure 12.1.

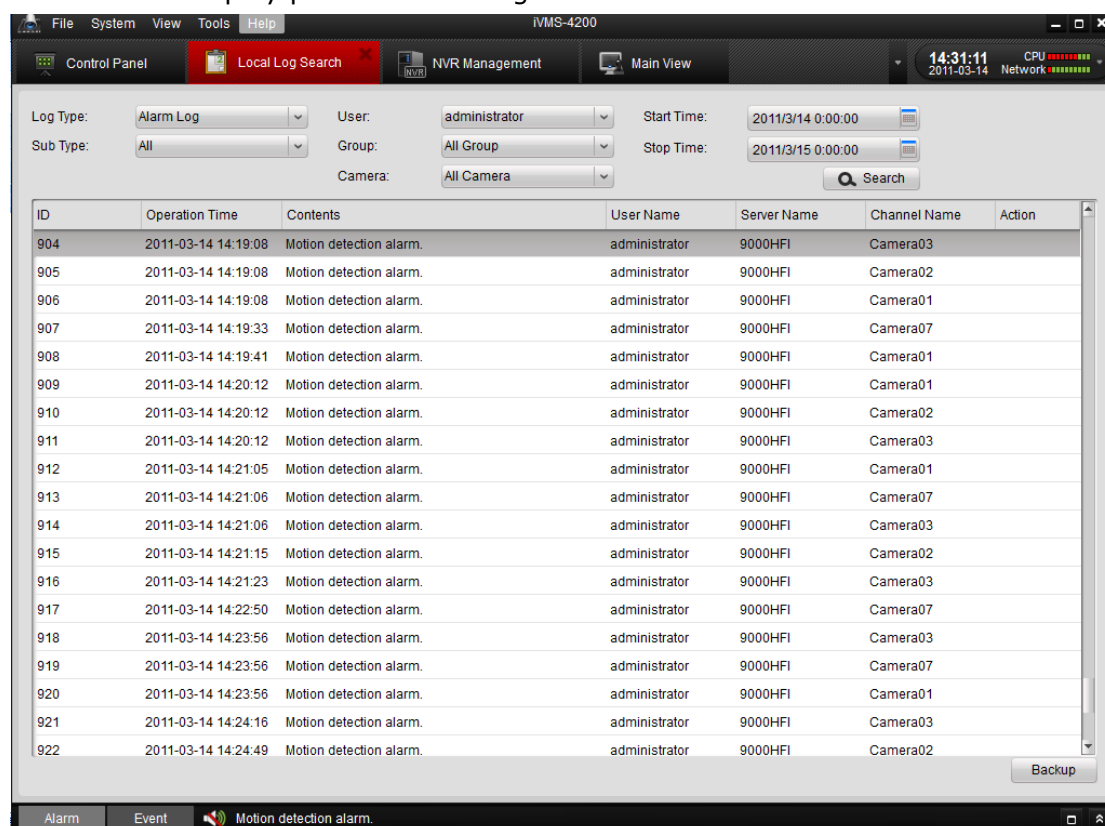
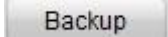


Figure 12.1 Log Search

### 12.2 Log Backup

Select the logs from the list and then click  to enter the Backup Log dialog box to select saving path of log files. The log will be exported as .XML file.

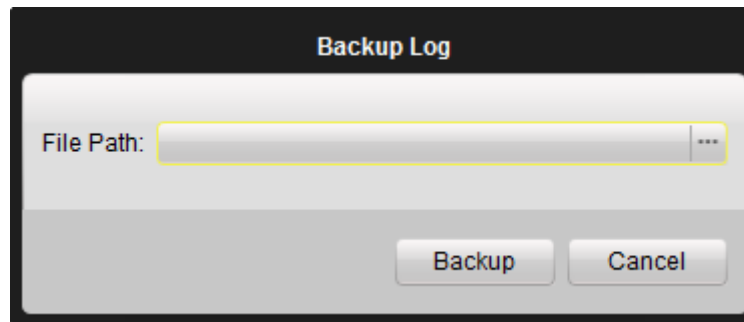


Figure 12.2 Log Backup to Device

## 12.3 Open Log File

For the log files that have been backed up to local PC, user can open them by clicking File→Open Log File from the menu bar to enter the Log File interface.

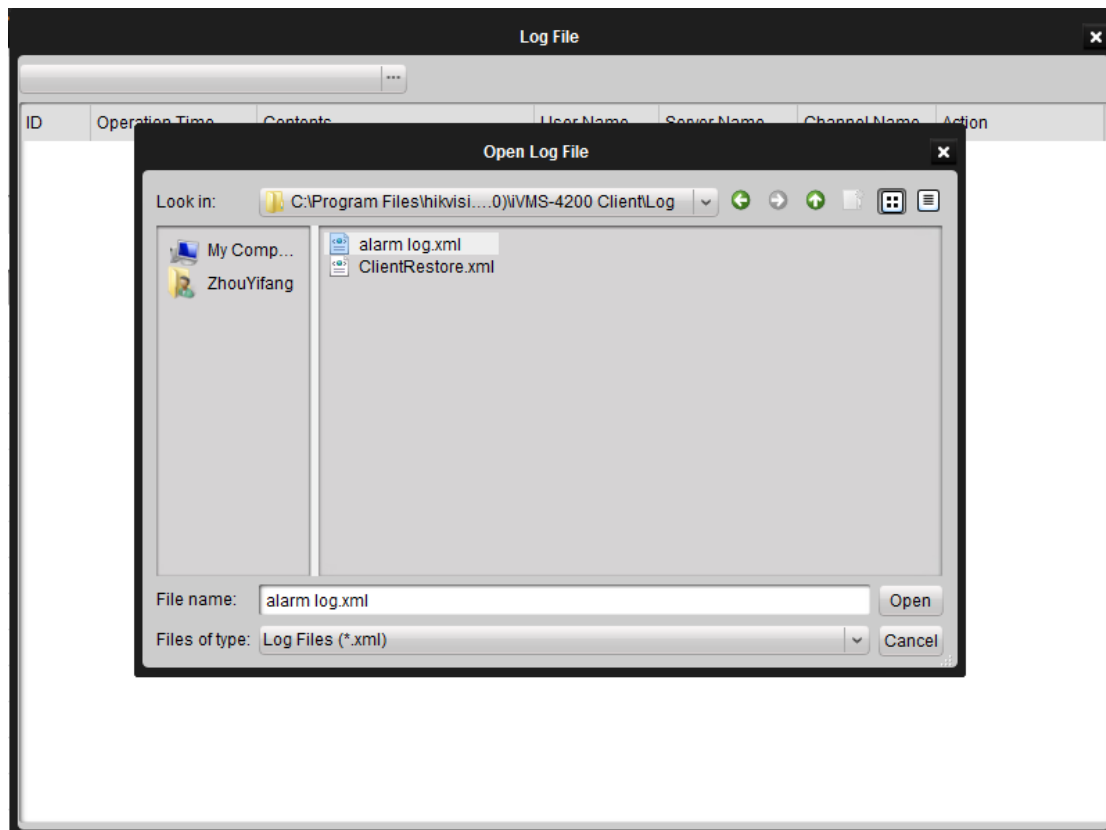


Figure 12.3 Open Log File

Click the  button to browse the directory where the log files are located.

After having selected the log file, click  to open the log file. Refer to Figure 12.4.

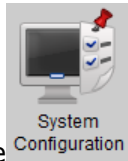
Log File

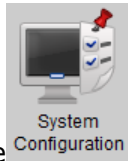
C:/Program Files/hikvision/iVMS 4200(v1.0)/iVM: ---

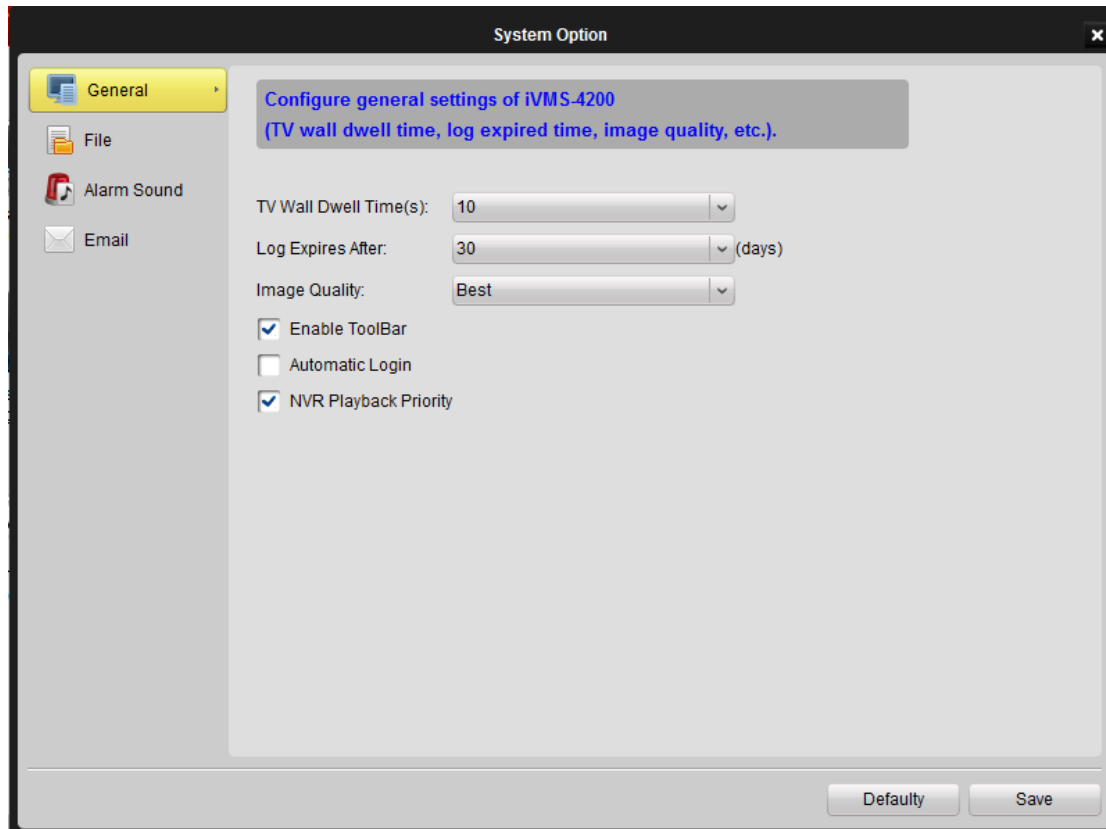
ID	Operation Time	Contents	User Name	Server Name	Channel Name	Action
1	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera01	
2	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera02	
3	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera03	
4	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera05	
5	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera06	
6	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera07	
7	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	Camera08	
8	2011-03-14 09:03:38	Sensor alarm.	administrator	9000HFI	IPCamera01	
9	2011-03-14 09:11:17	Motion detection alarm.	administrator	9000HFI	Camera07	
10	2011-03-14 09:11:18	Motion detection alarm.	administrator	9000HFI	Camera02	
11	2011-03-14 09:11:18	Motion detection alarm.	administrator	9000HFI	Camera03	
12	2011-03-14 09:11:18	Motion detection alarm.	administrator	9000HFI	Camera01	
13	2011-03-14 09:11:39	Motion detection alarm.	administrator	9000HFI	Camera01	
14	2011-03-14 09:11:39	Motion detection alarm.	administrator	9000HFI	Camera02	
15	2011-03-14 09:11:39	Motion detection alarm.	administrator	9000HFI	Camera03	
16	2011-03-14 09:11:39	Motion detection alarm.	administrator	9000HFI	Camera07	
17	2011-03-14 09:13:36	Motion detection alarm.	administrator	9000HFI	Camera07	
18	2011-03-14 09:13:42	Motion detection alarm.	administrator	9000HFI	Camera01	
19	2011-03-14 09:13:42	Motion detection alarm.	administrator	9000HFI	Camera02	

Figure 12.4 Display of Logs

## Chapter 13. System Configuration



Click on the  icon on the control panel to enter the system configuration interface.



### 13.1 General

In the General system configuration page (Figure 13.1), users can set general configuration for the local PC.

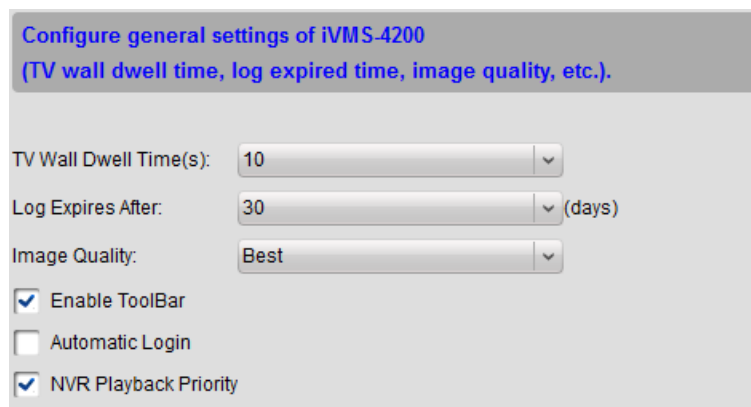


Figure 13.1 System Configuration-General

**TV Wall Dwell Time (s):** switching cycle for the TV wall display. Unit: second.

**Log Expires After:** previous log files older than the specific expire time will be deleted and not display on log query.

**Image Quality:** general image quality settings for the local software.

**Enable ToolBar:** Show toolbar at the bottom of window in preview, playback, etc. Refer to Figure 13.2.

**Automatic Login:** automatically login the software without user account validation.

**NVR Playback Priority:** Enable NVR playback priority during playback operation if required.


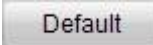

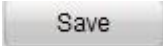
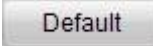
Users can click  to save the current configuration, or click  to reset all the system options to the default level.



Figure 13.2 Enable Toolbar

## 13.2 File

In the File configuration page (Figure 13.3), users can set the file directory to store video recording, snapshot and remote configuration file for export. Click the  button to open the file browser and select the file directory accordingly.

Users can click  to save the current configuration, or click  to reset all the system options to the default level.

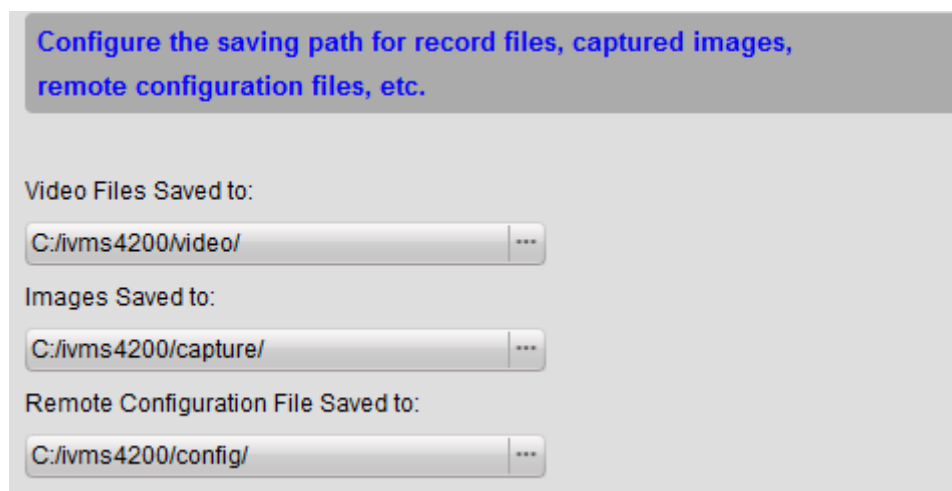




Figure 13.3 System Configuration- File

## 13.3 Alarm Sound

In the Alarm Sound configuration page (Figure 13.4), users can select different audio wave file for different types of alarm triggering. Click  button to open the file browser, and select an audio wav file for the selected alarm type. User may also click the  button to listen to the selected audio file.

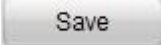
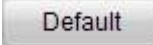
Users can click  to save the current configuration, or click  to reset all the system options to the default level.



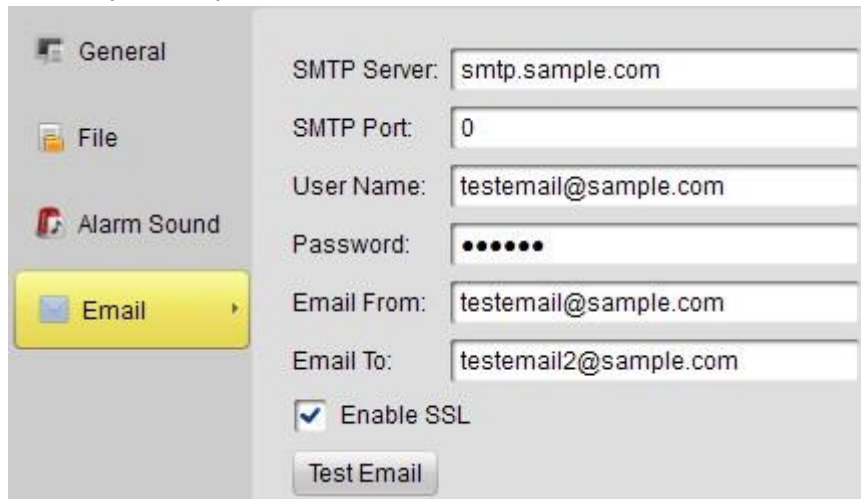
Figure 13.4 System Configuration-Alarm Sound

## 13.4 Email

In the email configuration page (Figure 13.5), users can set the SMTP account

information for the alarm action of the local software. Input correct SMTP information according to the mail server and click **Test Email** to check if the test message can be send to the email address successfully.

Users can click **Save** to save the current configuration, or click **Default** to reset all the system options to the default level.



The screenshot shows the 'Email' configuration window. On the left is a sidebar with four tabs: 'General', 'File', 'Alarm Sound', and 'Email'. The 'Email' tab is selected and highlighted in yellow. The main area contains the following fields and controls:

- SMTP Server:
- SMTP Port:
- User Name:
- Password:
- Email From:
- Email To:
- ☒ Enable SSL
- Test Email** button

Figure 13.5 System Configuration-Alarm Sound



## Chapter 14. FAQ

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### Live View

**Question:**

How to get the live view image from a HIKVISION device?

**Answer:**

Step 1: Add the device into the software device list; please refer to section 4.1 for more details.

Step 2: Add a channel from the device from the device list into a group. Please refer to section 4.3 for group operation.

Step 3: Open the Main View interface from the Control Panel, and drag the camera from the group list on the left side to the display window.

### Recording

**Question:** How to set motion detection recording from a HIKVISION device?

**Answer:**

Step 1: Configure event recording mode in recording schedule setup. For motion detection recording on NVR, please refer to Section 6.2.3; and for motion detection recording on the device, please refer to Section 9.1.3.

Step 2: Configure Motion Detection parameters, including motion detection area, sensitivity and linkage options (please enable "Upload to Center" option for motion recording on NVR) in the camera configuration. Please refer to Section 9.1.5 for setup details of motion detection.

### Playback

**Question:** How to search for video files recorded under certain event mode?

**Answer:**

Step 1: Go to Event Search panel and select an event type: motion or input (i.e. alarm input).

Step 2: Choose a camera in the group and specify a start time, then click Search button.


Step 3: Select a window, and double-click a video file from the search results list to play.

### Configuration

**Question:** How to set encoding parameters in the device configuration?

**Answer:**

The encoding parameters should be set separately for each camera, and it is configured in "Camera Configuration" setup page. Click on the "Camera

Configuration" icon  in the control panel to enter the Camera Configuration interface.